DEPARTMENT OF NATU							AMEND	FOR ED REPOR				
	DIVISION OF OIL, GAS AND MINING											
		Α	PPLICATIO	N FOR I	PERMIT TO DRILL			1. WELL NAME and NUMBER 14-11D-37 BTR				
2. TYPE	OF WORK	DRILL NEW WEL	L REE	NTER P&A	WELL DEEPE	N WELL	3. FIELD OR WILDCAT UNDESIGNATED					
4. TYPE	OF WELL		Oil Well	Coalbe	d Methane Well: NO			5. UNIT or COMMU	ITAZITI	ON AGRE	EMENT	NAME
6. NAME	OF OPERAT			L BARRE				7. OPERATOR PHON	<b>NE</b> 303 312	-8164		
8. ADDR	RESS OF OPER		)99 18th Street	Ste 230	0, Denver, CO, 80202			9. OPERATOR E-MA dspend	<b>IL</b> er@billbar	rettcorp.c	om	
	ERAL LEASE AL, INDIAN,				11. MINERAL OWNER	RSHIP AN 📵 STATE 🧐	) FEE	12. SURFACE OWNE	ERSHIP DIAN (	STATE		EE (III)
13. NAM	IE OF SURFA	CE OWNER (if be			vocable Trust			14. SURFACE OWN	R PHONE 435-828			~~
15. ADD	RESS OF SUF	RFACE OWNER (	if box 12 = 'f					16. SURFACE OWNE	R E-MAI	L (if box :	L2 = 'fe	e')
		E OR TRIBE NA			18. INTEND TO COM MULTIPLE FORMATION		ON FROM	19. SLANT				
(if box :	12 = 'INDIAN					ommingling Application	on) NO 📵	VERTICAL DIR	ECTIONAL	. 📵 н	HORIZONTAL 🔵	
20. LO	CATION OF W	/ELL		FOC	OTAGES	QTR-QTR	SECTION	TOWNSHIP	RAI	NGE	MER	IDIAN
LOCAT	ION AT SURF	ACE		335 FSL	1359 FWL	SESW	11	3.0 S	7.0	W		U
Top of	Uppermost P	roducing Zone		812 FSL	1871 FWL	SESW	11	3.0 S	7.0	W	U	
At Tota	al Depth			810 FSL	1871 FWL	SESW	11	3.0 S	7.0	W		U
21. COU	INTY	DUCHESNE			22. DISTANCE TO NE	AREST LEASE LINE	(Feet)	23. NUMBER OF AC	<b>RES IN D</b> 640		UNIT	
					25. DISTANCE TO NE (Applied For Drilling		ME POOL	<b>26. PROPOSED DEP</b> MD:		ΓVD: 1193	6	
27. ELE	VATION - GR	OUND LEVEL			28. BOND NUMBER			29. SOURCE OF DRI			E ADDI	TCABLE
		6848				LPM8874725			e City Culi			ICABLE
					Hole, Casing, a	and Cement Info	rmation					
String		Casing Size	Length	Weigh					Sacks		Weight	
Cond	26	9.625	0 - 80 0 - 4000	65.0 36.0	Unknown	8.8	Halliburte	Unknown	2011	620	0.0	0.0
Surf	12.25	9.625	0 - 4000	36.0	J-55 ST&C	8.8	3.8 Halliburton Light , Type Unknown 620 3.16  Halliburton Premium , Type Unknown 210 1.36		11.0			
Prod	8.75	5.5	0 - 11999	17.0	P-110 LT&C	9.7			11.0			
- 1 4 4									13.5			
					AT	TACHMENTS						
	VERIFY	THE FOLLOW	ING ARE A	ГТАСНЕ	D IN ACCORDANC	CE WITH THE UT	AH OIL AND (	GAS CONSERVATI	ON GEN	ERAL RI	JLES	
<b>I</b> ✓ V	VELL PLAT O	R MAP PREPARE	D BY LICENS	ED SURV	YEYOR OR ENGINEER	СОМЕ	PLETE DRILLING	PLAN				
AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)			ACE) FORM	5. IF OPERATO	R IS OTHER THAN T	HE LEASE	OWNER					
<b>≥</b> D												
DRILLE		SURVEY PLAN (	(IF DIRECTIO	NALLY C	PR HORIZONTALLY	торос	GRAPHICAL MA	P				
			(IF DIRECTIO		R HORIZONTALLY  Senior Permit Analyst		PHONE 303					
	<b>D)</b> Venessa Langr		(IF DIRECTIO	TITLE			PHONE 303		rp.com			
NAME SIGNA	<b>D)</b> Venessa Langr	nacher	(IF DIRECTIO	TITLE	Senior Permit Analyst 06/24/2011		PHONE 303	312-8172	rp.com			

## **DRILLING PLAN**

#### **BILL BARRETT CORPORATION**

## 14-11D-37 BTR Well Pad

SE SW, 335' FSL and 1359' FWL, Section 11, T3S, R7W, USB&M (surface hole) SE SW, 810' FSL and 1871' FWL, Section 11, T3S, R7W, USB&M (bottom hole) Duchesne County, Utah

## 1 - 2. <u>Estimated Tops of Geological Markers and Formations Expected to Contain Water, Oil and</u> Gas and Other Minerals

<b>Formation</b>	Depth – MD	Depth – TVD
Lower Green River*	7,374'	7,321'
Douglas Creek	8,139'	8,076'
Black Shale	8,689'	8,626'
Castle Peak	8,954'	8,891'
Uteland Butte	9,349'	9,286'
Wasatch*	9,789'	9,726'
TD	11,999'	11,936'

<sup>\*</sup>PROSPECTIVE PAY

The Wasatch and the Lower Green River are primary objectives for oil/gas.

#### 3. BOP and Pressure Containment Data

Depth Intervals	BOP Equipment
0 - 4,000	No pressure control required
4,000' – TD	11" 5000# Ram Type BOP
	11" 5000# Annular BOP
D '11' 1 .	1 . 1 1 11 11 11

- Drilling spool to accommodate choke and kill lines;
- Ancillary equipment and choke manifold rated at 5,000 psi. All BOP and BOPE tests will be in accordance with the requirements of onshore Order No. 2;
- The BLM and the State of Utah Division of Oil, Gas and Mining will be notified 24 hours in advance of all BOP pressure tests.
- BOP hand wheels may be underneath the sub-structure of the rig if the drilling rig used is set up To operate most efficiently in this manner.

#### 4. <u>Casing Program</u>

<b>Hole</b>	SETTING	G DEPTH	Casing	Casing	Casing		
<u>Size</u>	(FROM)	<u>(TO)</u>	<u>Size</u>	Weight	<u>Grade</u>	<b>Thread</b>	Condition
26"	Surface	80'	16"	65#			
12 1/4"	Surface	4,000'	9 5/8"	36#	J or K 55	BT&C	New
8 ¾"	Surface	TD	5 ½"	17#	P-110	LT&C	New
NOTE:	NOTE: In addition, 8 3/4" hole size may change to 7 7/8" at the point the bit is changed out.						

Bill Barrett Corporation Drilling Program #14-11D-37 BTR Duchesne County, Utah

## 5. <u>Cementing Program</u>

Casing	Cementing
16" Conductor Casing	Grout
9 5/8" Surface Casing	Lead with approximately 620 sx Halliburton Light Premium with additives mixed at 11.0 ppg (yield = 3.16 ft <sup>3</sup> /sx) circulated to surface with 75% excess. Top of lead estimated at surface.
	<i>Tail</i> with approximately 210 sx Halliburton Premium cement with additives mixed at 14.8 ppg (yield = $1.36$ ft <sup>3</sup> /sx), calculated hole volume with 75% excess. Top of tail estimated at 3,500'.
5 1/2" Production Casing	Lead with approximately 770 sx Tuned Light cement with additives, mixed at 11.0 ppg (yield = 2.31 ft <sup>3</sup> /sx,). Top of lead estimated at 3,500'.
	Tail with approximately 1030 sx Halliburton Econocem cement with additives mixed at 13.5 ppg (yield = $1.42$ ft <sup>3</sup> /sx). Top of tail estimated at 8,189'.

## 6. Mud Program

<u>Interval</u>	<u>Weight</u>	Viscosity	Fluid Loss (API filtrate)	<u>Remarks</u>
0' - 80'	8.3 - 8.8	26 - 36	NC	Freshwater Spud Mud Fluid
				System
80' - 4,000'	8.3 - 8.8	26 - 36	NC	Freshwater Spud Mud Fluid
				System
4,000' – TD	8.6 - 9.7	42-52	20 cc or less	DAP Polymer Fluid System

Note: Sufficient mud materials to maintain mud properties, control lost circulation and to contain "kicks" will be available at wellsite. BBC may require minor amounts of diesel to be added to its fluid system in order to reduce torque and drag.

## 7. <u>Testing, Logging and Core Programs</u>

Cores	None anticipated
Testing	None anticipated; drill stem tests may be run on shows of interest;
Sampling	30' to 50' samples; surface casing to TD. Preserve samples all show intervals;
Surveys	MWD as needed to land wellbore;
Logging	DIL-GR-SP, FDC-CNL-GR-CALIPER-Pe-Microlog, Sonic-GR (all TD to surface).
	FMI & Sonic Scanner to be run at geologist's discretion.

Bill Barrett Corporation Drilling Program #14-11D-37 BTR Duchesne County, Utah

#### 8. Anticipated Abnormal Pressures or Temperatures

No abnormal pressures or temperatures or other hazards are anticipated.

Maximum anticipated bottom hole pressure equals approximately 6021 psi\* and maximum anticipated surface pressure equals approximately 3395 psi\*\* (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

\*Max Mud Wt x 0.052 x TD = A (bottom hole pressure)

#### 9. Auxiliary Equipment

- a) Upper kelly cock; lower Kelly cock will be installed while drilling
- b) Inside BOP or stab-in valve (available on rig floor)
- c) Safety valve(s) and subs to fit all string connections in use
- d) Mud monitoring will be visually observed

#### 10. Location and Type of Water Supply

Water for the drilling and completion will be trucked from the Duchesne City Culinary Water Dock located in Sec. 1, T4S, R5W.

## 11. <u>Drilling Schedule</u>

Location Construction: January 2012 Spud: January 2012

Duration: 15 days drilling time

45 days completion time

<sup>\*\*</sup>Maximum surface pressure = A - (0.22 x TD)

#### PRESSURE CONTROL EQUIPMENT – Schematic Attached

# A. Type: Eleven (11) Inch Double Gate Hydraulic BOP with Eleven (11) Inch Annular Preventer. The blow out preventer will be equipped as follows:

- 1. One (1) blind ram (above).
- 2. One (1) pipe ram (below).
- 3. Drilling spool with two (2) side outlets (choke side 3-inch minimum, kill side 2-inch minimum).
- 4. 3-inch diameter choke line.
- 5. Two (2) choke line valves (3-inch minimum).
- 6. Kill line (2-inch minimum).
- 7. Two (2) chokes with one (1) remotely controlled from the rig floor.
- 8. Two (2) kill line valves, and a check valve (2-inch minimum).
- 9. Upper and lower kelly cock valves with handles available.
- 10. Safety valve(s) & subs to fit all drill string connections in use.
- 11. Inside BOP or float sub available.
- 12. Pressure gauge on choke manifold.
- 13. Fill-up line above the uppermost preventer.

## **B. Pressure Rating:** 5,000 psi

## C. Testing Procedure:

#### Annular Preventer

At a minimum, the Annular Preventer will be pressure tested to 50% of the rated working pressure for a period of ten (10) minutes or until provisions of the test are met, whichever is longer.

At a minimum the above pressure test will be performed:

- 1. When the annular preventer is initially installed;
- 2. Whenever any seal subject to test pressure is broken;
- 3. Following related repairs; and
- 4. At thirty (30) day intervals.

In addition, the Annular Preventer will be functionally operated at least weekly.

#### **Blow-Out Preventer**

At a minimum, the BOP, choke manifold, and related equipment will be pressure tested to the approved working pressure of the BOP stack (if isolated from the surface casing by a test plug) or to 70% of the internal yieldstrength of the surface casing (if the BOP is not isolated from the casing by a test plug). Pressure will be

maintained for a period of at least ten (10) minutes or until the requirmentsof the test are met, whichever is longer.

At a minimum, the above pressure test will be performed:

- 1. When the BOP is initially installed;
- 2. Whenever any seal subject to test pressure is broken;
- 3. Following related repairs; and
- 4. At thirty (30) day intervals.

In addition the pipe and blind rams will be activated each trip, but not more than once each day. All BOP drills and tests will be recorded in the IADC driller's log.

## D. Choke Manifold Equipment:

All choke lines will be straight lines unless turns use tee blocks or are targeted with running tees, and will be anchored to prevent whip and vibration.

#### E. Accumulator:

The accumulator will have sufficient capacity to open the hydraulically-controlled choke line valve (if so equipped), close all rams plus the annular preventer, and retain a minimum of 200 psi above precharge on the closing manifold without the use of closing unit pumps. The fluid reservoir capacity will be double the usable fluid volume of the accumulator system capacity and the fluid level of the reservoir will be maintained at the manufacturer's recommendations.

The BOP system will have two (2) independent power sources to close the preventers. Nitrogen bottles (3 minimum) will be one (1) of these independent power sources and will maintain a charge equal to the manufacturer's specifications.

The accumulator precharge pressure test will be conducted prior to connecting the closing unit to the BOP stack and at least once every six (6) months thereafter. The accumulator pressure will be corrected if the measured precharge pressure is found to be above or below the maximum or minimum limits specified in the *Onshore Oil & Gas Order Number 2*.

A manual locking device (i.e. hand wheels) or automatic locking device will be installed on all systems of 2M or greater. A valve will be installed in the closing line as close as possible to the annular preventer to act as a locking device. This valve will be maintained in the open position and will be closed only when the power source for the accumulator is inoperative.

Remote controls shall be readily accessible to the driller. Remote controls for all 3M or greater systems will be capable of closing all preventers. Remote controls for 5M or greater systems will be capable of both opening and closing all preventers. Master controls will be at the accumulator and will be capable of opening and closing all preventers and the choke line valve (if so equipped).

#### F. Miscellaneous Information:

The Blow-Out Preventer and related pressure control equipment will be installed, tested and maintained in compliance with the specifications in and requirements of *Onshore Oil & Gas Order Number 2*. The hydraulic BOP closing unit will be located at least twenty-five (25) feet from the well head but readily accessible to the driller. Exact locations and configurations of the hydraulic BOP closing unit will depend upon the particular rig contracted to drill this hole.

A flare line will be installed after the choke manifold, extending 125 feet (minimum) from the center of the drill hole to a separate flare pit.



## LAKE CANYON & BLACK TAIL RIDGE CEMENT VOLUMES

Well Name: <u>14-11D-37 BTR</u>

#### Surface Hole Data:

4,000'
0'
12.250"
9.625"

#### Calculated Data:

Lead Volume:	1918.3	ft³
Lead Fill:	3,500'	
Tail Volume:	274.0	ft°
Tail Fill:	500'	

#### **Cement Data:**

Lead Yield:	3.16	ft³/sk
% Excess:	75%	
Top of Lead:	0'	

Tail Yield:	1.36	ft°/sk
% Excess:	75%	
Top of Tail:	3,500'	

#### Calculated # of Sacks:

# SK's Lead:	620
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#### **Production Hole Data:**

Total Depth:	11,999'
Top of Cement:	3,500'
Top of Tail:	8,189'
OD of Hole:	8.750"
OD of Casing:	5.500"

#### **Calculated Data:**

Lead Volume:	1776.6	ft³
Lead Fill:	4,689'	
Tail Volume:	1443.7	ft³
Tail Fill:	3,810'	

## Cement Data:

Lead Yield:	2.31	ft³/sk
Tail Yield:	1.42	ft <sup>3</sup> /sk
% Excess:	50%	

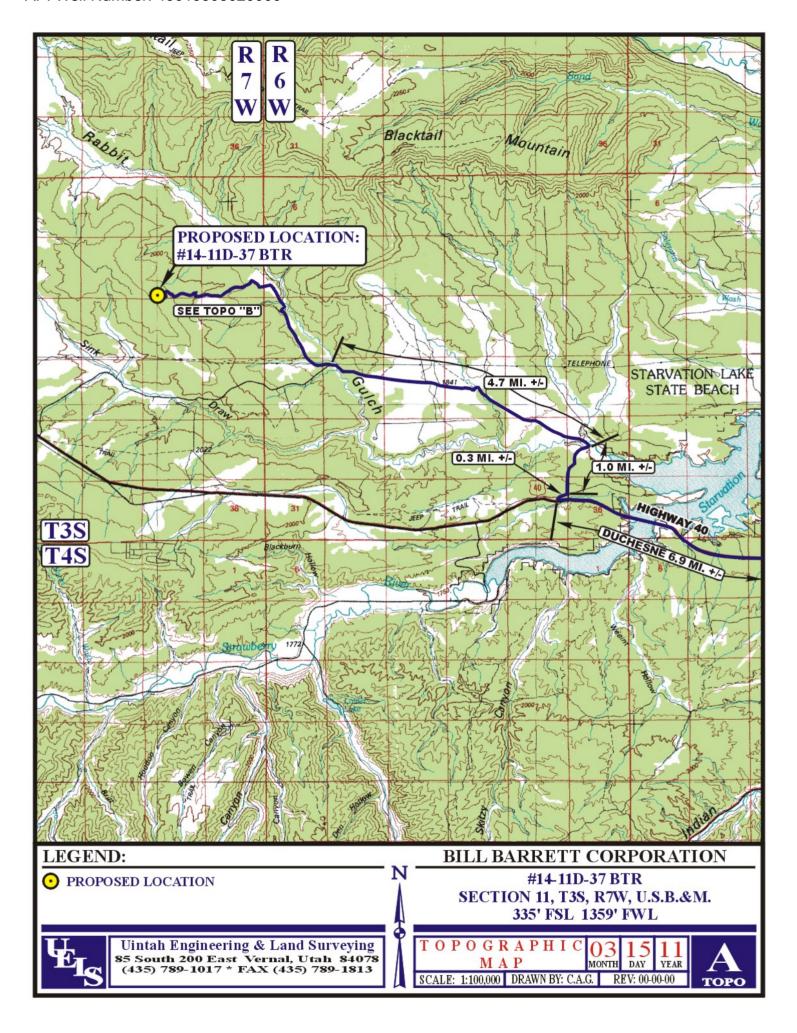
## Calculated # of Sacks:

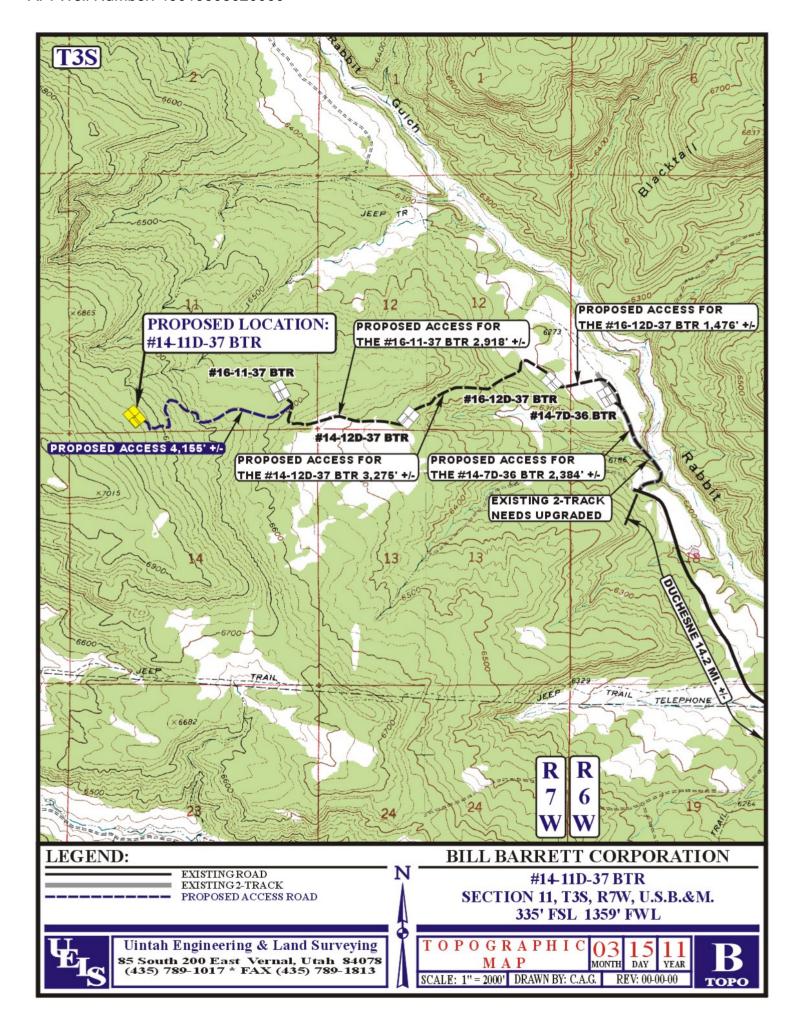
# SK's Lead:	770
# SK's Tail:	1030

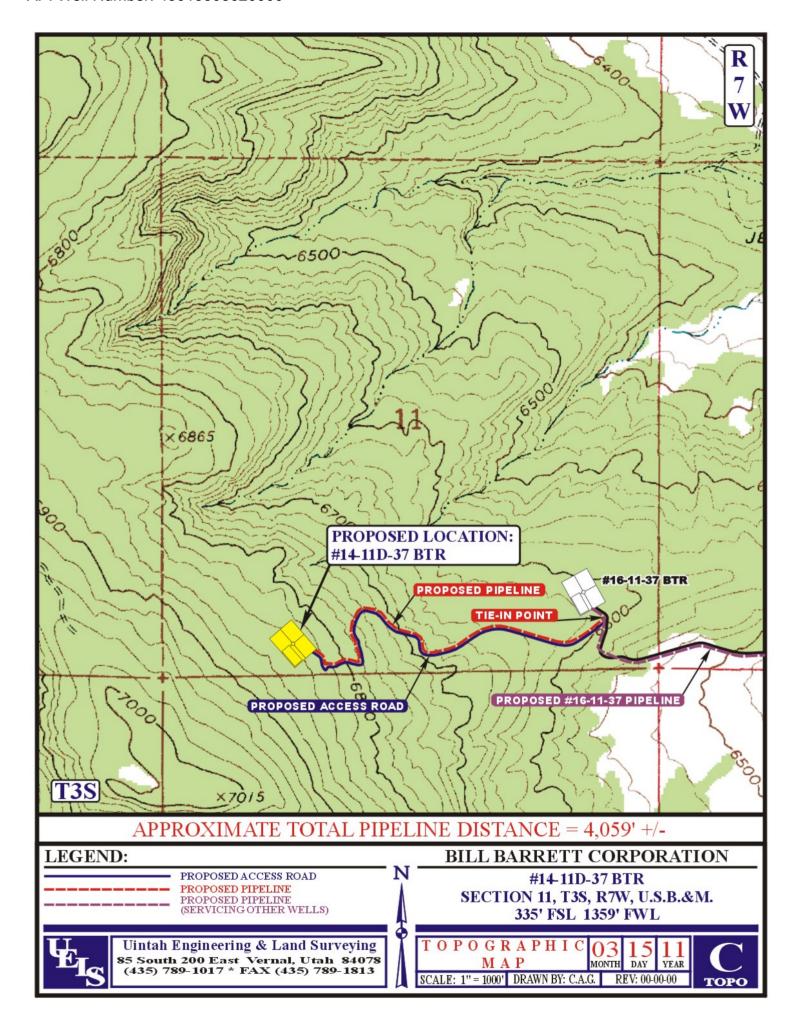
## 14-11D-37 BTR Proposed Cementing Program

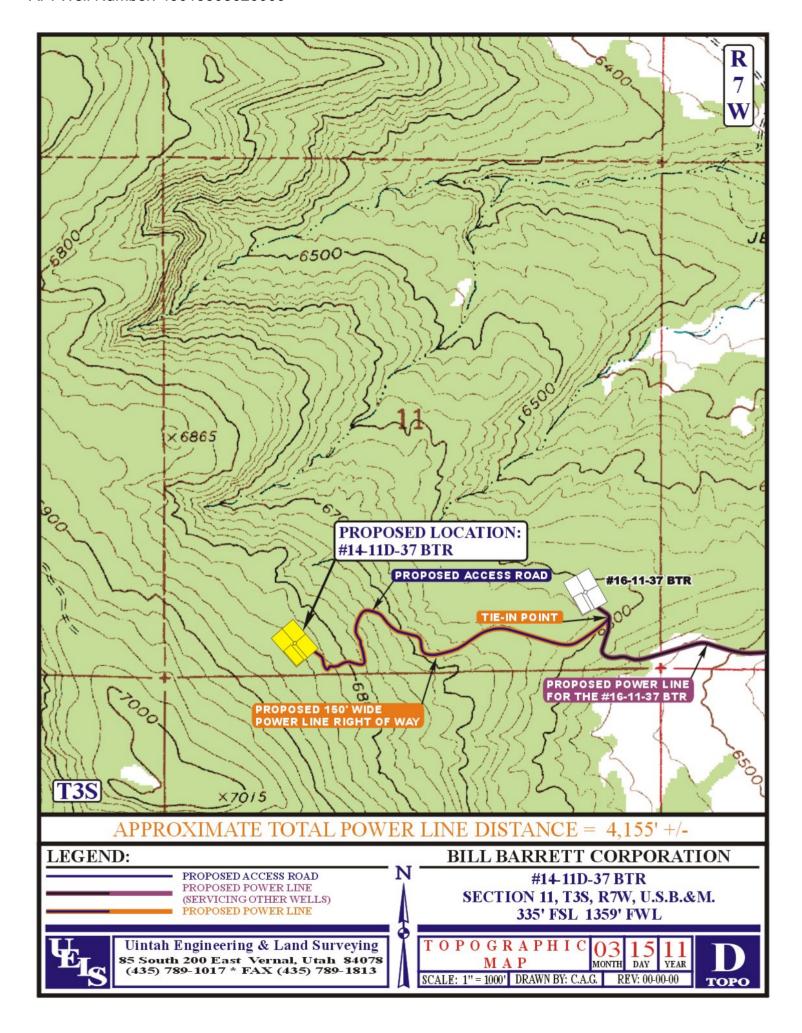
Job Recommendation		Sur	face Casing
Lead Cement - (3500' - 0')			
Halliburton Light Premium	Fluid Weight:	11.0	lbm/gal
5.0 lbm/sk Silicalite Compacted	Slurry Yield:	3.16	ft <sup>3</sup> /sk
0.25 lbm/sk Kwik Seal	Total Mixing Fluid:	19.48	Gal/sk
0.125 lbm/sk Poly-E-Flake	Top of Fluid:	0'	
2.0% Bentonite	Calculated Fill:	3,500'	
	Volume:	341.63	bbl
	Proposed Sacks:	620	sks
Tail Cement - (TD - 3500')			
Premium Cement	Fluid Weight:	14.8	lbm/gal
2.0% Calcium Chloride	Slurry Yield:	1.36	ft <sup>3</sup> /sk
	Total Mixing Fluid:	6.37	Gal/sk
	Top of Fluid:	3,500'	
	Calculated Fill:	500'	
	Volume:	48.80	bbl
	Proposed Sacks:	210	sks

Job Recommendation Production Ca					
Lead Cement - (8189' - 3500')					
Tuned Light <sup>™</sup> System	Fluid Weight:	11.0	lbm/gal		
	Slurry Yield:	2.31	ft <sup>3</sup> /sk		
	Total Mixing Fluid:	10.65	Gal/sk		
	Top of Fluid:	3,500'			
	Calculated Fill:	4,689'			
	Volume:	316.41	bbl		
	Proposed Sacks:	770	sks		
Tail Cement - (11999' - 8189')					
Econocem <sup>TM</sup> System	Fluid Weight:	13.5	lbm/gal		
0.125 lbm/sk Poly-E-Flake	Slurry Yield:	1.42	ft <sup>3</sup> /sk		
1.0 lbm/sk Granulite TR 1/4	Total Mixing Fluid:	6.61	Gal/sk		
	Top of Fluid:	8,189'			
	Calculated Fill:	3,810'			
	Volume:		bbl		
	Proposed Sacks:	1030	sks		







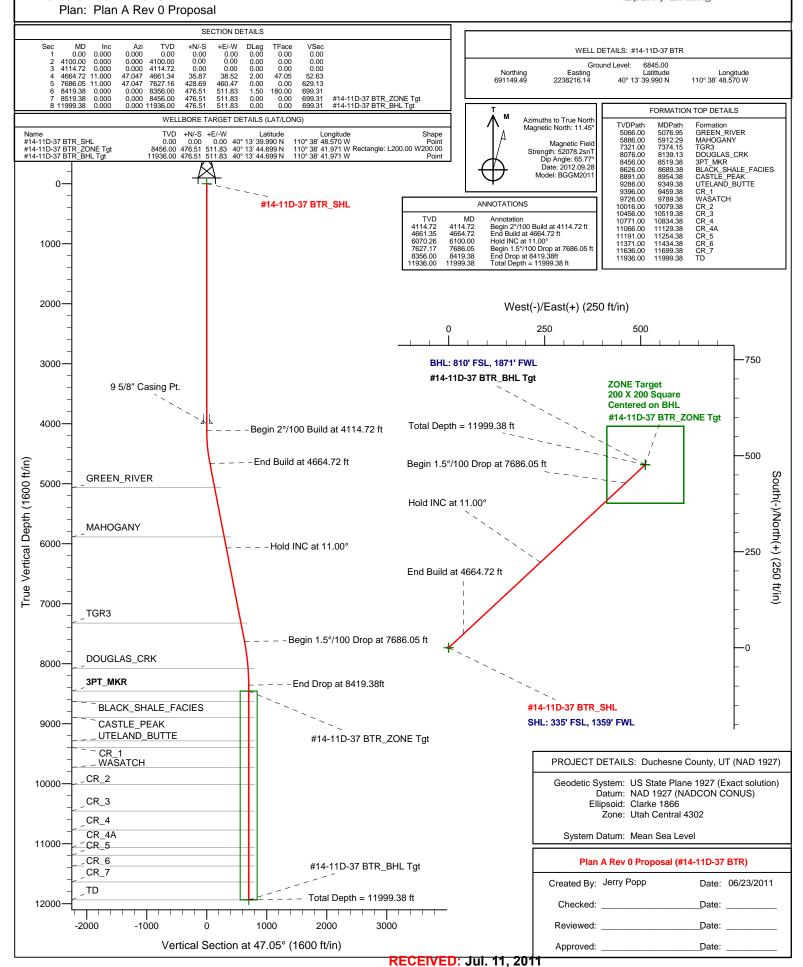


Project: Duchesne County, UT (NAD 1927)

Site: Sec. 11-T3S-R7W Well: #14-11D-37 BTR Wellbore: Plan A Rev 0

## Bill Barrett Corp





## Plan Report for #14-11D-37 BTR - Plan A Rev 0 Proposal

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Toolface Azimuth (°)
0.00	0.000	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.000	0.000	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.000	0.000	200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.000	0.000	300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.000	0.000	400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.000	0.000	500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.000	0.000	600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.000	0.000	700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.000	0.000	800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.000	0.000	900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.000	0.000		0.00		0.00		0.00		0.00
1,000.00 1,100.00	0.000	0.000	1,000.00 1,100.00	0.00	0.00 0.00	0.00	0.00 0.00	0.00	0.00 0.00	0.00
1,200.00	0.000	0.000	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.000	0.000	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.000	0.000	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
•			·							
1,500.00 1,600.00	0.000 0.000	0.000 0.000	1,500.00 1.600.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
1,700.00	0.000	0.000	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.000	0.000	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.000	0.000	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
•			·							
2,000.00 2.100.00	0.000	0.000	2,000.00 2.100.00	0.00	0.00	0.00	0.00	0.00	0.00 0.00	0.00 0.00
2,100.00	0.000 0.000	0.000 0.000	2,100.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00	0.00
2,200.00	0.000	0.000	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.000	0.000	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
•			·							
2,500.00	0.000	0.000	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00 2,700.00	0.000 0.000	0.000 0.000	2,600.00 2,700.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
2,800.00	0.000	0.000	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.000	0.000	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
•			·							
3,000.00	0.000	0.000	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.000	0.000 0.000	3,100.00 3,200.00	0.00	0.00 0.00	0.00 0.00	0.00	0.00	0.00 0.00	0.00 0.00
3,200.00 3,300.00	0.000 0.000	0.000	3,200.00	0.00 0.00	0.00	0.00	0.00 0.00	0.00 0.00	0.00	0.00
3,400.00	0.000	0.000	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
•			·							
3,500.00	0.000	0.000	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.000 0.000	0.000 0.000	3,600.00	0.00	0.00 0.00	0.00	0.00	0.00	0.00 0.00	0.00 0.00
3,700.00 3,800.00	0.000	0.000	3,700.00 3,800.00	0.00 0.00	0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00	0.00
3,900.00	0.000	0.000	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
•			,							
4,000.00	0.000	0.000	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9 5/8" Cas		0.000	4.400.00	0.00	0.00	0.00	2.02	0.00	0.00	0.00
4,100.00 4.114.72	0.000	0.000	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.000 <b>00 Build at 41</b>	0.000 <b>14.72</b> ft	4,114.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	1.706	47.047	4,199.99	0.86	0.93	1.27	2.00	2.00	0.00	47.05
4,300.00	3.706	47.047	4,299.87	4.08	4.38	5.99	2.00	2.00	0.00	0.00
4,400.00	5.706	47.047	4,399.53	9.67	10.39	14.19	2.00	2.00	0.00	0.00
4,500.00	7.706	47.047	4,498.84	17.63	18.93	25.87	2.00	2.00	0.00	0.00
4,600.00	9.706	47.047	4,597.68	27.94	30.01	41.00	2.00	2.00	0.00	0.00
4,664.72	11.000	47.047	4,661.35	35.87	38.52	52.63	2.00	2.00	0.00	0.00
	at 4664.72 ft									
4,700.00	11.000	47.047	4,695.98	40.45	43.45	59.37	0.00	0.00	0.00	0.00
4,800.00	11.000	47.047	4,794.14	53.45	57.42	78.45	0.00	0.00	0.00	0.00
4,900.00	11.000	47.047	4,892.30	66.46	71.38	97.53	0.00	0.00	0.00	0.00
5,000.00	11.000	47.047	4,990.47	79.46	85.35	116.61	0.00	0.00	0.00	0.00
5,076.95	11.000	47.047	5,066.00	89.46	96.09	131.29	0.00	0.00	0.00	0.00
GREEN_R	IVER									

## Plan Report for #14-11D-37 BTR - Plan A Rev 0 Proposal

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Toolface Azimuth (°)
5,100.00	11.000	47.047	5,088.63	92.46	99.31	135.69	0.00	0.00	0.00	0.00
5,200.00 5,300.00 5,400.00 5,500.00 5,600.00	11.000 11.000 11.000 11.000 11.000	47.047 47.047 47.047 47.047 47.047	5,186.79 5,284.96 5,383.12 5,481.28 5,579.44	105.46 118.46 131.46 144.47 157.47	113.28 127.24 141.21 155.18 169.14	154.77 173.85 192.93 212.01 231.09	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
5,700.00 5,800.00 5,900.00 5,912.29	11.000 11.000 11.000 11.000	47.047 47.047 47.047 47.047	5,677.61 5,775.77 5,873.93 5,886.00	170.47 183.47 196.47 198.07	183.11 197.07 211.04 212.75	250.18 269.26 288.34 290.68	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
6,000.00	11.000	47.047	5,972.09	209.48	225.00	307.42	0.00	0.00	0.00	0.00
6,100.00	11.000	47.047	6,070.26	222.48	238.97	326.50	0.00	0.00	0.00	0.00
Hold INC a										
6,200.00 6,300.00 6,400.00 6,500.00	11.000 11.000 11.000 11.000	47.047 47.047 47.047 47.047	6,168.42 6,266.58 6,364.75 6,462.91	235.48 248.48 261.48 274.48	252.93 266.90 280.86 294.83	345.58 364.66 383.74 402.82	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
6,600.00 6,700.00 6,800.00 6,900.00 7,000.00	11.000 11.000 11.000 11.000 11.000	47.047 47.047 47.047 47.047 47.047	6,561.07 6,659.23 6,757.40 6,855.56 6,953.72	287.49 300.49 313.49 326.49 339.49	308.80 322.76 336.73 350.69 364.66	421.90 440.98 460.07 479.15 498.23	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
7,100.00 7,200.00 7,300.00 7,374.15 <b>TGR3</b>	11.000 11.000 11.000 11.000	47.047 47.047 47.047 47.047	7,051.88 7,150.05 7,248.21 7,321.00	352.49 365.50 378.50 388.14	378.62 392.59 406.55 416.91	517.31 536.39 555.47 569.62	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
7,400.00	11.000	47.047	7,346.37	391.50	420.52	574.55	0.00	0.00	0.00	0.00
7,500.00 7,600.00 7,686.05	11.000 11.000 11.000	47.047 47.047 47.047	7,444.54 7,542.70 7,627.17	404.50 417.50 428.69	434.49 448.45 460.47	593.63 612.71 629.13	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
_	/100 Drop at 7									
7,700.00 7,800.00	10.791 9.291	47.047 47.047	7,640.87 7,739.33	430.49 442.37	462.40 475.16	631.77 649.20	1.50 1.50	-1.50 -1.50	0.00 0.00	180.00 180.00
7,900.00 8,000.00 8,100.00 8,139.13	7.791 6.291 4.791 4.204	47.047 47.047 47.047 47.047	7,838.22 7,937.46 8,036.99 8,076.00	452.49 460.84 467.42 469.51	486.03 495.00 502.07 504.31	664.05 676.31 685.97 689.03	1.50 1.50 1.50 1.50	-1.50 -1.50 -1.50 -1.50	0.00 0.00 0.00 0.00	180.00 180.00 180.00 180.00
8,200.00	3.291	47.047	8,136.74	472.22	507.22	693.01	1.50	-1.50	0.00	-180.00
8,300.00 8,400.00 8,419.38	1.791 0.291 0.000 at 8419.38ft	47.047 47.047 0.000	8,236.64 8,336.62 8,356.00	475.24 476.48 476.51	510.47 511.80 511.83	697.44 699.26 699.31	1.50 1.50 1.50	-1.50 -1.50 -1.50	0.00 0.00 0.00	180.00 180.00 -180.00
8,500.00 8,519.38	0.000 0.000 - <b>#14-11D-37</b>	0.000 0.000 BTR_ZONE T	8,436.62 8,456.00	476.51 476.51	511.83 511.83	699.31 699.31	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
8,600.00 8,689.38 BLACK_S	0.000 0.000 HALE_FACIES	0.000 0.000	8,536.62 8,626.00	476.51 476.51	511.83 511.83	699.31 699.31	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
8,700.00 8,800.00 8,900.00	0.000 0.000 0.000	0.000 0.000 0.000	8,636.62 8,736.62 8,836.62	476.51 476.51 476.51	511.83 511.83 511.83	699.31 699.31 699.31	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
8,954.38 <b>CASTLE_F</b>	0.000 <b>PEAK</b>	0.000	8,891.00	476.51	511.83	699.31	0.00	0.00	0.00	0.00
9,000.00 9,100.00	0.000 0.000	0.000 0.000	8,936.62 9,036.62	476.51 476.51	511.83 511.83	699.31 699.31	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00

## Plan Report for #14-11D-37 BTR - Plan A Rev 0 Proposal

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Toolface Azimuth (°)
9,200.00 9,300.00	0.000 0.000	0.000 0.000	9,136.62 9,236.62	476.51 476.51	511.83 511.83	699.31 699.31	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
9,349.38 <b>UTELAND</b>	0.000 <b>BUTTE</b>	0.000	9,286.00	476.51	511.83	699.31	0.00	0.00	0.00	0.00
9,400.00 9,459.38 <b>CR_1</b>	0.000 0.000	0.000 0.000	9,336.62 9,396.00	476.51 476.51	511.83 511.83	699.31 699.31	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
9,500.00 9,600.00	0.000 0.000	0.000 0.000	9,436.62 9,536.62	476.51 476.51	511.83 511.83	699.31 699.31	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
9,700.00 9,789.38 <b>WASATCH</b>	0.000 0.000	0.000 0.000	9,636.62 9,726.00	476.51 476.51	511.83 511.83	699.31 699.31	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
9,800.00 9,900.00 10,000.00	0.000 0.000 0.000	0.000 0.000 0.000	9,736.62 9,836.62 9,936.62	476.51 476.51 476.51	511.83 511.83 511.83	699.31 699.31 699.31	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
10,079.38 CR_2	0.000	0.000	10,016.00	476.51	511.83	699.31	0.00	0.00	0.00	0.00
10,100.00 10,200.00 10,300.00 10,400.00	0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000	10,036.62 10,136.62 10,236.62 10,336.62	476.51 476.51 476.51 476.51	511.83 511.83 511.83 511.83	699.31 699.31 699.31	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
10,500.00 10,519.38 <b>CR_3</b>	0.000 0.000	0.000 0.000	10,436.62 10,456.00	476.51 476.51	511.83 511.83	699.31 699.31	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
10,600.00 10,700.00 10,800.00	0.000 0.000 0.000	0.000 0.000 0.000	10,536.62 10,636.62 10,736.62	476.51 476.51 476.51	511.83 511.83 511.83	699.31 699.31 699.31	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
10,834.38 CR_4	0.000	0.000	10,771.00	476.51	511.83	699.31	0.00	0.00	0.00	0.00
10,900.00 11,000.00 11,100.00 11,129.38 CR_4A	0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000	10,836.62 10,936.62 11,036.62 11,066.00	476.51 476.51 476.51 476.51	511.83 511.83 511.83 511.83	699.31 699.31 699.31 699.31	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
11,200.00 11,254.38 CR_5	0.000 0.000	0.000 0.000	11,136.62 11,191.00	476.51 476.51	511.83 511.83	699.31 699.31	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
11,300.00 11,400.00 11,434.38 CR_6	0.000 0.000 0.000	0.000 0.000 0.000	11,236.62 11,336.62 11,371.00	476.51 476.51 476.51	511.83 511.83 511.83	699.31 699.31 699.31	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
11,500.00 11,600.00 11,699.38 CR_7	0.000 0.000 0.000	0.000 0.000 0.000	11,436.62 11,536.62 11,636.00	476.51 476.51 476.51	511.83 511.83 511.83	699.31 699.31 699.31	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
11,700.00 11,800.00	0.000 0.000	0.000 0.000	11,636.62 11,736.62	476.51 476.51	511.83 511.83	699.31 699.31	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
11,900.00 11,999.38 <b>TD - #14-1</b>	0.000 0.000 <b>1D-37 BTR_B</b> I	0.000 0.000 <b>HL Tgt</b>	11,836.62 11,936.00	476.51 476.51	511.83 511.83	699.31 699.31	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00

## Plan Report for #14-11D-37 BTR - Plan A Rev 0 Proposal

## **Plan Annotations**

Measured	Vertical	Local Coor	dinates	
Depth	Depth	+N/-S	+E/-W	Comment
(ft)	(ft)	(ft)	(ft)	
4,114.72	4,114.72	0.00	0.00	Begin 2°/100 Build at 4114.72 ft
4,664.72	4,661.35	35.87	38.52	End Build at 4664.72 ft
6,100.00	6,070.26	222.48	238.97	Hold INC at 11.00°
7,686.05	7,627.17	428.69	460.47	Begin 1.5°/100 Drop at 7686.05 ft
8,419.38	8,356.00	476.51	511.83	End Drop at 8419.38ft
11,999.38	11,936.00	476.51	511.83	Total Depth = 11999.38 ft

## **Vertical Section Information**

Angle			Origin	Orig	jin	Start
Туре	Target	Azimuth (°)	Type	+N/_S (ft)	+E/-W (ft)	TVD (ft)
Target	#14-11D-37 BTR_BHL Tgt	47.047	Slot	0.00	0.00	0.00

## Survey tool program

From	То		Survey/Plan	Survey Tool
(ft)	(ft)			
0.00	11,999.38	Plan A Rev 0 Proposal		MWD

#### **Casing Details**

Measured	Vertical			Casing	Hole
Depth	Depth		Name	Diameter	Diameter
(ft)	(ft)			(")	(")
4,000.00	4,000.00	9 5/8" Casing Pt.		9-5/8	13-1/2

## **Formation Details**

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip Dip Direction (°) (°)		
5,076.95	5,066.00	GREEN_RIVER				
5,912.29	5,886.00	MAHOGANY				
7,374.15	7,321.00	TGR3				
8,139.13	8,076.00	DOUGLAS_CRK				
8,519.38	8,456.00	3PT_MKR				
8,689.38	8,626.00	BLACK_SHALE_FACIES				
8,954.38	8,891.00	CASTLE_PEAK				
9,349.38	9,286.00	UTELAND_BUTTE				
9,459.38	9,396.00	CR_1	CR_1			
9,789.38	9,726.00	WASATCH				
10,079.38	10,016.00	CR_2				
10,519.38	10,456.00	CR_3				
10,834.38	10,771.00	CR_4				
11,129.38	11,066.00	CR_4A				
11,254.38	11,191.00	CR_5				
11,434.38	11,371.00	CR_6				
11,699.38	11,636.00	CR_7				
11,999.38	11,936.00	TD				

## Plan Report for #14-11D-37 BTR - Plan A Rev 0 Proposal

## Targets associated with this wellbore

	TVD	+N/-S	+E/-W	
Target Name	(ft)	(ft)	(ft)	Shape
#14-11D-37 BTR_SHL	0.00	0.00	0.00	Point
#14-11D-37 BTR_BHL Tgt	11,936.00	476.51	511.83	Point
#14-11D-37 BTR ZONE Tgt	8,456.00	476.51	511.83	Rectangle

## North Reference Sheet for Sec. 11-T3S-R7W - #14-11D-37 BTR - Plan A Rev 0

All data is in US Feet unless otherwise stated. Directions and Coordinates are relative to True North Reference.

Vertical Depths are relative to RKB 16' @ 6861.00ft (Patterson 506). Northing and Easting are relative to #14-11D-37 BTR

Coordinate System is US State Plane 1927 (Exact solution), Utah Central 4302 using datum NAD 1927 (NADCON CONUS), ellipsoid Clarke 1866

Projection method is Lambert Conformal Conic (2 parallel)

Central Meridian is -111.50°, Longitude Origin:0° 0' 0.000 E°, Latitude Origin:40° 39' 0.000 N°

False Easting: 2,000,000.00ft, False Northing: 0.00ft, Scale Reduction: 0.99992227

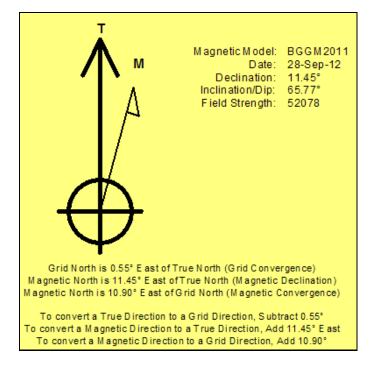
Grid Coordinates of Well: 691,149.49 ft N, 2,238,216.14 ft E

Geographical Coordinates of Well: 40° 13' 39.99" N, 110° 38' 48.57" W

Grid Convergence at Surface is: 0.55°

Based upon Minimum Curvature type calculations, at a Measured Depth of 11,999.38ft the Bottom Hole Displacement is 699.31ft in the Direction of 47.05° (True).

Magnetic Convergence at surface is: -10.90° (28 September 2012, , BGGM2011)



#### SURFACE DAMAGE AND RIGHT-OF-WAY SETTLEMENT AGREEMENT

This Agreement, made and entered into this the 5th day of April, 2011, by and between Ralph M. Giles, Trustee of the Ralph M. Giles Revocable Trust, with an address of P.O. Box 405, Tabiona, UT 84072-0405, ("Surface Owner"), and, Bill Barrett Corporation, 1099 18th Street, Suite 2300, Denver CO 80202, ("BBC").

#### WITNESSETH THAT:

WHEREAS, BBC owns undivided interests in certain oil and gas leases ("leases") covering and affecting Sections 11 and 12, Township 3 South, Range 7 West, USM, of Duchesne County, Utah; and,

WHEREAS, such leases grant to BBC the right and privilege of ingress, egress, exploring, drilling, mining, operating for, producing and owning oil and gas and all other products produced therewith, together with the right to make surveys on said lands, lay pipelines, construct roads and bridges, dig canals, build power stations, telephone lines, employee houses and other structures on said lands, necessary or useful in BBC's operations; and,

WHEREAS, BBC, pursuant to its rights under the Leases, intends to drill the following wells:

#14-11-37 BTR,

#16-11-37 BTR,

#14-12-37 BTR, and,

#16-12-37 BTR wells at legal drill-site locations in the S1/2 of Sections 11 and 12, Township 3 South, Range 7 West, USM, Duchesne County, Utah; and,

WHEREAS, Surface Owner warrants ownership to the surface of at least specific portions of the S1/2 of Sections 11 and 12, Township 3 South, Range 7 West, USM, Duchesne County, Utah, and which warranted ownership is further subject to all oil, gas and other mineral rights which are reserved for the use and benefit of the owners thereof; and,

Page 1 of 3

Ralph M. Giles (435)828-4161

BBC shall maintain all roads used pursuant to this Agreement and shall install culverts where necessary to insure adequate drainage from all roads.

BBC shall repair any fences and gates damaged by them during the course of their operations on the lands subject to this Agreement.

Surface Owner and their heirs or assigns shall have full access and use of the road built pursuant to this Agreement.

This Agreement shall inure to the benefit of the parties hereto, their heirs, successors and assigns and shall be a burden running with the land.

This Agreement may be executed in any number of counterparts and all such counterparts shall be deemed to constitute a single Agreement and the execution of one counterpart by any party hereto shall have the same force and effect as if said party had signed all other counterparts.

IN WITNESS WHEREOF, the parties have executed this Surface Damage Settlement Agreement effective as of the <u>5th day of April, 2011.</u>

SURFACE OWNER: BI	LL BARRETT CORPORATION
By: Ble To Siles To restar B Ralph M. Giles, Trustee	y: Luluit (18 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
COUNTY OF Ducksne	
On the day of May, 20 Leigh M. Jules Trustee, known to me to the foregoing instrument and acknowledged purpose and consideration therein expressed	. 0
	Notary Public Residing at: Suchestle Witch 84021
My Commission Expires: /2 11 10//	
	CORALEE SANCHEZ 239 West 300 North Duchestre, Uteh 64021 My Commission Expires December 17, 2011 State of Utah
STATE OF UTAH ) ) COUNTY OF SALT LAKE )	
On the	said instrument was signed in behalf of said Board of Directors and said
	Och William lorthy Notary Public
My Commission Expires: 10-24-2049	Residing at:  DANIEL WILLIAM COSTLEY  NOTATY PUBLIC-STATE OF UTUAN  COMMISSIONS 606945  COMM. EXP. 10-24-2014

#### SURFACE USE PLAN

#### **BILL BARRETT CORPORATION**

#### <u>14-11D-37 BTR Well Pad</u>

SE SW, 335' FSL and 1359' FWL, Section 11, T3S, R7W, USB&M (surface hole) SE SW, 810' FSL and 1871' FWL, Section 11, T3S, R7W, USB&M (bottom hole) Duchesne County, Utah

The onsite inspection with the surface owner was completed on June 15, 2011. Site specific conditions and/or mitigation measures will be as follows:

- 1. Stockpile wood for landowner
- 2. Utilize 20 mil liner over felt (minimum)
- 3. Solid Rock Construction

The excavation contractor would be provided with an approved copy of the surface use plan of operations before initiating construction.

#### 1. Existing Roads:

- a. The proposed well site is located approximately 16.9 miles northwest of Duchesne, Utah. Maps and directions reflecting the route to the proposed well site are included (see Topographic maps A and B).
- b. The existing Duchesne County maintained Koch Road (CR 23) would be utilized for 5.7 miles to an existing El Paso maintained access road that would be utilized for 1.3 miles that provides access to the planned new access road.
- c. Project roads would require routine year-round maintenance to provide year-round access. Maintenance would include inspections, reduction of ruts and holes, maintenance to keep water off the road, replacement of surfacing materials, and clearing of sediment blocking ditches and culverts. Should snow removal become necessary, roads would be cleared with a motor grader and snow would be stored along the down gradient side to prohibit runoff onto the road. Aggregate would be used as necessary to maintain a solid running surface and minimize dust generation.
- d. Vehicle operators would obey posted speed restrictions and observe safe speeds commensurate with road and weather conditions. Travel would be limited to the existing access roads and proposed access road.
- e. The use of roads under State and Duchesne County Road Department maintenance are necessary to access the project area with no improvements proposed. No encroachment or pipeline crossing permit are required
- f. All existing roads would be maintained and kept in good repair during all phases of operation.

Bill Barrett Corporation Surface Use Plan #14-11D-37 BTR Duchesne County, UT

## 2. <u>Planned Access Road</u>:

- a. Approximately 4,155 feet of new access road trending west is planned from the proposed 16-11-37 BTR, 14-12D-37, 16-12D-37, 14-7D-36 BTR access roads. The 16-11-37, 14-12D-37, 16-12D-37, 14-7D-36 BTR access has been applied for and continues an additional 10,053 feet to the existing El Paso maintained access road (see Topographic Map B).
- b. The road would be constructed to a 30-foot ROW width with an 18-foot travel surface. See section 12.d. below for disturbance estimates.
- c. New road construction and improvements of existing roads would typically require the use of motor graders, crawler tractors, 10-yard end dump trucks, and water trucks. The standard methodology for building new roads involves the use of a crawler tractor or track hoe to windrow the vegetation to one side of the road corridor, remove topsoil to the opposing side of the corridor, and rough-in the roadway. This is followed by a grader or bulldozer to establish barrow ditches and crown the road surface. Where culverts are required, a track hoe or backhoe would trench the road and install the culverts. Some hand labor would be required when installing and armoring culverts. Road base or gravel in some instances would be necessary and would be hauled in and a grader used to smooth the running surface.
- d. The proposed road would be constructed to facilitate drainage, control erosion and minimize visual impacts by following natural contours where practical. No unnecessary side-casting of material would occur on steep slopes.
- e. A maximum grade of 10% would be maintained throughout the project with minimum cuts and fills, as necessary, to access the well.
- f. Excess rock from construction of the pad may be used for surfacing of the access road if necessary. Any additional aggregate necessary would be obtained from private or State of Utah lands in conformance with applicable regulations. Aggregate would be of sufficient size, type, and amount to allow all weather access and alleviate dust.
- g. Where topsoil removal is necessary, it would be windrowed (i.e. stockpiled/accumulated along the edge of the ROW and in a low row/pile parallel with the ROW) and re-spread over the disturbed area after construction and backfilling are completed. Vegetation removed from the disturbed area would also be re-spread to provide protection, nutrient recycling, and a seed source for reclamation.
- h. Turnouts are not proposed because the access road is short and adequate site distance exists in all directions.

Bill Barrett Corporation Surface Use Plan #14-11D-37 BTR Duchesne County, UT

- i. No culverts or low-water crossings are anticipated. Adequate drainage structures, where necessary, would be incorporated into the remainder of the road to prevent soil erosion and accommodate all-weather traffic.
- j. No gates or cattle guards are anticipated at this time.
- k. Surface disturbance and vehicular travel would be limited to the approved location access road. Adequate signs would be posted, as necessary, to warn the public of project related traffic.
- All access roads and surface disturbing activities would conform to the
  appropriate standard, **no higher than necessary**, to accommodate their intended
  function adequately as outlined in the Bureau of Land Management and Forest
  Service publication: <u>Surface Operating Standards for Oil and Gas Exploration</u>
  and Development, Fourth Edition Revised 2007.
- m. The operator would be responsible for all maintenance needs of the new access road.

## 3. <u>Location of Existing Wells (see One-Mile Radius Map):</u>

a. Following is a list of wells with surface hole locations within a one-mile radius of the proposed pad:

i.	water wells	none
ii.	injection wells	none
iii.	disposal wells	none
iv.	drilling wells	none
v.	temp shut-in wells	none
vi.	producing wells	none
vii.	abandoned wells	two

#### 4. Location of Production Facilities

- a. Surface facilities would consist of a wellhead, separator, gas meter, (1) 500 gal methanol tank, (1) 500 glycol tank, (3) 500 bbl oil tanks, (1) 500 bbl water tank, (1) 500 bbl test tank, (1) 1000 gal propane tank, a pumping unit or Roto-flex unit or gas lift unit with a natural gas fired motor, solar panels, solar chemical and methanol pumps and one trace pump. See attached proposed facility diagram.
- b. Most wells would be fitted with a pump jack or Roto-flex unit or gas lift to assist liquid production if liquid volumes and/or low formation pressures require it. Plunger lift systems do not require any outside source of energy. The prime mover for pump jacks or Roto-flex units would be small (75 horsepower or less), natural gas-fired internal combustion engines. If a gas lift is installed, it would be set on a 10 ft x 15 ft pad and the prime mover would be a natural gas-fired internal combustion engine rated at 200 horsepower or less or an electric compressor of similar horsepower powered by a generator.

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- c. The tank battery would be surrounded by a secondary containment berm of sufficient capacity to contain 1.1 times the entire capacity of the largest single tank and sufficient freeboard to contain precipitation. All loading lines and valves would be placed inside the berm surrounding the tank battery or would utilize catchment basins to contain spills. All liquid hydrocarbon production and measurement shall conform to the provisions of 43 CFR 3162.7-2 and Onshore Oil and Gas Order No. 4 for the measurement of oil.
- d. Gas meter run(s) would be constructed and located on lease within 500 feet of the wellheads. Meter runs would be housed and/or fenced. As practicably feasible, meters would be equipped with remote telemetry monitoring systems. All gas production and measurement shall comply with the provisions of 43 CFR 3162.7-3, Onshore Oil and Gas Order No. 5, and American Gas Association (AGA) Report No. 3.
- e. A combustor may be installed at this location for control of associated condensate tank emissions. A combustor ranges from 24 inches to 48 inches wide and is approximately 27 ft tall. Combustor placement would be on existing disturbance.
- f. Approximately 4,059 feet of pipeline corridor (see Topographic Map C) containing up to three lines (one gas pipeline up to 8 inch in diameter, one water line up to 4 inch in diameter and one residue line up to 4 inch in diameter) is proposed trending east to the proposed 16-11-37 BTR, 14-12D-37, 16-12D-37, 14-7D-36 BTR pipeline corridor. The 16-11-37 BTR, 14-12D-37, 16-12D-37, 14-7D-36 BTR pipeline corridors have been applied for and continue approximately 10,053 feet to the existing pipeline corridor. Pipelines would be constructed of steel, polyethylene or fiberglass and would connect to the proposed pipeline servicing nearby BBC and El Paso wells. The pipeline crosses entirely private surface.
- g. The new segment of gas pipeline would be surface laid within a 30 foot wide pipeline corridor adjacent to the proposed access road. See 12.d below for disturbance estimates.
- h. Construction of the ROW would temporarily utilize the 30 foot disturbed width for the road for a total disturbed width of 60 foot for the road and pipeline corridors. The use of the proposed well site and access roads would facilitate the staging of the pipeline construction.
- Pipeline construction methods and practices would be planned and conducted by BBC with the objective of enhancing reclamation and fostering the reestablishment of the native plant community.
- j. All permanent above-ground structures would be painted a flat, non-reflective color, such as Beetle Green, to match the standard environmental colors. All facilities would be painted the designated color at the time of installation.

Bill Barrett Corporation Surface Use Plan #14-11D-37 BTR Duchesne County, UT

Facilities required to comply with the Occupational Safety and Health Act (OSHA) may be excluded.

- k. Site security guidelines identified in 43 CFR 3162.7-5 and Onshore Oil and Gas Order No. 3 would be adhered to. Any modifications to proposed facilities would be reflected in the site security diagram submitted.
- 1. The site would require periodic maintenance to ensure that drainages are kept open and free of debris, and that surfaces are properly treated to reduce erosion, fugitive dust, and impacts to adjacent areas.

## 5. <u>Location and Type of Water Supply:</u>

a. Water for the drilling and completion would be trucked from any of the following locations:

Water Right No. and Application or Change No.	Applicant	Allocation	Date	Point of Diversion	Source
43-180	Duchesne City Water Service District	5 cfs	8/13/2004	Knight Diversion Dam	Duchesne River
43-1202, Change a13837	Myton City	5.49 cfr and 3967 acre feet	3/21/1986	Knight Diversion Dam	Duchesne River
43-10444, Appln A57477	Duchesne County Upper Country Water	2 cfs	1994	Ditch at Source	Cow Canyon Spring
43-10446, Appln F57432	Duchesne County Upper Country Water	1.58 cfs	1994	Ditch at Source	Cow Canyon Spring
43-1273, Appln A17462	J.J.N.P. Company	7 cfs	1946	Strawberry River	Strawberry River
43-1273, Appln t36590	J.J.N.P. Company	4 cfs	6/03/2010	Strawberry River	Strawberry River

- b. No new water well is proposed with this application.
- c. Should additional water sources be pursued they would be properly permitted through the State of Utah Division of Water Rights.
- d. Water use would vary in accordance with the formations to be drilled but would be up to approximately 5.41 acre feet for drilling and completion operations.

#### 6. Source of Construction Material:

a. The use of materials would conform to 43 CFR 3610.2-3.

Bill Barrett Corporation Surface Use Plan #14-11D-37 BTR Duchesne County, UT

- b. No construction materials would be removed from the lease or EDA area.
- c. If any additional gravel is required, it would be obtained from a local supplier having a permitted source of materials within the general area.

## 7. <u>Methods of Handling Waste Disposal:</u>

- a. All wastes associated with this application would be contained and disposed of utilizing approved facilities.
- b. The reserve pit would be constructed so as not to leak, break or allow any discharge.
- c. The reserve would be lined with 12 mil (minimum) thickness polyethylene nylon reinforced liner material. The liner(s) would overlay straw, dirt and/or bentonite if rock is encountered during excavation. The liner would overlap the pit walls and be covered with dirt and/or rocks to hold them in place. No trash, scrap pipe, or other materials that could puncture the liner would be discarded in the pit. A minimum of two feet of free board would be maintained between the maximum fluid level and the top of the reserve pit at all times.
- d. To deter livestock from entering the pit, the three sides exterior to the location would be fenced before drilling starts. Following the conclusion of drilling and completion activities, the fourth side would also be fenced.
- e. Drill cuttings would be contained in the pit and buried on-site for a period not to exceed six months, weather permitting
- f. Produced fluids from the well other than water would be decanted into steel test tank(s) until such time as construction of production facilities is completed. Any oil that may be accumulated would be transferred to a permanent production tank. Produced water may be used in further drilling and completion activities, evaporated in the pit, or would be hauled to one of the state-approved disposal facilities below:

#### **Disposal Facilities**

- 1. RNI Industries, Inc. Pleasant Valley Disposal Pits, Sec. 25, 26, 35 & 36, T4S-R3W
- 2. Pro Water LLC Blue Bench 13-1 Disposal Well (43-013-30971) NENE, Sec. 13, T3S-R5W
- 3. RN Industries, Inc. Bluebell Disposal Ponds, Sec. 2, 4 & 9, T2S-R2W
- 4. Water Disposal, Inc. Harmston 1-32-A1 Disposal Well (43-013-30224), UTR #00707, Sec. 32, T1S-R1W
- 5. Unified Water Pits Sec. 31, T2S-R4W
- 6. Iowa Tank Line Pits 8500 BLM Fence Road, Pleasant Valley

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- g. Any salts and/or chemicals, which are an integral part of the drilling system, would be disposed of in the same manner as the drilling fluid.
- h. Any spills of oil, condensate, produced or frac water, drilling fluids, or other potentially deleterious substances would be recovered and either returned to its origin or disposed of at an approved disposal site, most likely in Duchesne, Utah.
- i. Chemicals on the EPA's Consolidated List of Chemicals subject to reporting under Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) may be used or stored in quantities over reportable quantities. In the course of drilling, BBC could potentially store and use diesel fuel, sand (silica), hydrochloric acid, and CO<sub>2</sub> gas, all described as hazardous substances in 40 CFR Part 302, Section 302.4, in quantities exceeding 10,000 pounds. In addition, natural gas condensate and crude oil and methanol may be stored or used in reportable quantities. Small quantities of retail products (paint/spray paints, solvents {e.g., WD-40}, and lubrication oil) containing non-reportable volumes of hazardous substances may be stored and used on site at any time. No extremely hazardous substances, as defined in 40 CFR 355, would be used, produced, stored, transported or disposed of in association with the drilling, testing or completion of the wells.
- j. Portable toilets and trash containers would be located onsite during drilling and completion operations. A commercial supplier would install and maintain portable toilets and equipment and would be responsible for removing sanitary waste. Sanitary waste facilities (i.e. toilet holding tanks) would be regularly pumped and their contents disposed of at approved sewage disposal facilities in Duchesne, and/or Uintah Counties, in accordance with applicable rules and regulations regarding sewage treatment and disposal. Accumulated trash and nonflammable waste materials would be hauled to an approved landfill once a week or as often as necessary. All debris and waste materials not contained in the trash containers would be cleaned up, removed from the construction ROW, well pad, or worker housing location, and disposed of at an approved landfill. Trash would be cleaned up everyday.
- k. Sanitary waste equipment and trash bins would be removed from the Project Area upon completion of access road or pipeline construction; following drilling and completion operations at an individual well pad; when worker housing is no longer needed; or as required.
- 1. A flare pit may be constructed a minimum of 110' from the wellhead(s) and may be used during completion work. In the event a flare pit proves to be unworkable, a temporary flare stack or open top tank would be installed. BBC would flow back as much fluid and gas as possible into pressurized vessels, separating the fluids from the gas. In some instances, due to the completion fluids utilized within the Project Area, it is not feasible to direct the flow stream from the wellbore through pressurized vessels. In such instances BBC proposes to direct the flow to the open top tanks until flow through the pressurized vessels is feasible. At which point the fluid would either be returned to the reserve pit or

Bill Barrett Corporation Surface Use Plan #14-11D-37 BTR Duchesne County, UT

placed into a tank(s). The gas would be directed to the flare pit, flare stack (each with a constant source of ignition), or may be directed into the sales pipeline.

m. Hydrocarbons would be removed from the reserve pit would as soon as practical. In the event immediate removal is not practical, the reserve pit would be flagged overhead or covered with wire or plastic mesh to protect migrating birds.

## 8. <u>Ancillary Facilities:</u>

- a. Garbage containers and portable toilets would be located on the well pad.
- b. On well pads where active drilling and completion is occurring, temporary housing would be provided on location for the well pad supervisor, geologist, tool pusher, and others that are required to be on location at all times. The well pad could include up to five single wide mobile homes or fifth wheel campers/trailers.
- c. A surface powerline corridor 4,155 feet in length is proposed for installation by third-party installer within a 150 foot wide powerline corridor adjacent to the proposed access road. See 12.d below for disturbance estimates.

## 9. Well Site Layout:

- a. The well would be properly identified in accordance with 43 CFR 3162.6.
- b. The pad layout, cross section diagrams and rig layout are enclosed (see Figures 1 and 2).
- c. The pad and road designs are consistent with industry specifications.
- d. The pad has been staked at its maximum size of 400 feet x 300 feet with an inboard reserve pit size of 100 feet x 205 feet x 8 feet deep. See section 12.d below for disturbance estimates.
- e. Within the approved well pad location, a crawler tractor would strip whatever topsoil is present and stockpile it along the edge of the well pad for use during reclamation. Vegetation would be distributed along the sides of the well pad.
- f. Fill from pit excavation would be stockpiled along the edge of the pit and the adjacent edge of the well pad.
- g. Use of erosion control measures, including proper grading to minimize slopes, diversion terraces and ditches, mulching, terracing, riprap, fiber matting, temporary sediment traps, and broad-based drainage dips or low water crossings would be employed by BBC as necessary and appropriate to minimize erosion and surface runoff during well pad construction and operation. Cut and fill slopes would be constructed such that stability would be maintained for the life of the activity.

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- h. All cut and fill slopes would be such that stability can be maintained for the life of the activity.
- i. Diversion ditches would be constructed, if necessary, around the well site to prevent surface waters from entering the well site area.
- j. Water application may be implemented if necessary to minimize the amount of fugitive dust.
- k. All surface disturbing activities would be supervised by a qualified, responsible company representative who is aware of the terms and conditions of the APD and specifications in the approved plans.

#### 10. Plan for Restoration of the Surface:

- a. A site specific reclamation plan would be submitted, if requested, within 90 days of location construction to the surface managing agency or the fee landowners.
- b. Site reclamation would be accomplished for portions of the well pad not required for the continued operation of the well on this pad within six months of completion, weather permitting.
- c. The operator would control noxious weeds along access road use authorizations and well site by spraying or mechanical removal, according to the Utah Noxious Weed Act and as set forth in the approved surface damage agreements.
- d. Rat and mouse holes would be filled and compacted from bottom to top immediately upon release of the drilling rig from location. Upon well completion, any hydrocarbons in the pit shall be removed in accordance with 43 CFR 3162.7-1. The reserve pit would be allowed to dry prior to the commencement of backfilling work. No attempts would be made to backfill the reserve pit until it is free of standing water. Once dry, the liner would be torn and perforated before backfilling.
- e. The reserve pit and that portion of the location not needed for production facilities/operations would be recontoured to the approximate natural contours. Areas not used for production purposes would be backfilled and blended into the surrounding terrain, reseeded and erosion control measures installed. Mulching, erosion control measures and fertilization may be required to achieve acceptable stabilization. Back slopes and fore slopes would be reduced as practical and scarified with the contour. The reserved topsoil would be evenly distributed over the slopes and scarified along the contour. Slopes would be seeded with the landowner specified seed mix.
- f. Topsoil salvaged from the drill site and stored for more than one year would be placed at the location indicated on the well site layout drawing and graded to a

Bill Barrett Corporation Surface Use Plan #14-11D-37 BTR Duchesne County, UT

depth optimum to maintain topsoil viability, seeded with the landowner prescribed seed mixture and covered with mulch for protection from wind and water erosion and to discourage the invasion of weeds.

## 11. <u>Surface and Mineral Ownership:</u>

- a. Surface ownership Ralph M. Giles Revocable Trust PO Box 405, Tabiona, UT 84072; 435-828-4161
- b. Mineral ownership Ute Indian Tribe 988 South 7500 East; Ft. Duchesne, Utah 84026; 435-725-4982.

#### 12. Other Information:

- a. Montgomery Archeological Consultants has conducted a Class III archeological survey. A copy of the report has been submitted under separate cover to the appropriate agencies by Montgomery as report 11-088 dated May 25, 2011.
- BBC would require that their personnel, contractors, and subcontractors to comply with Federal regulations intended to protect archeological and cultural resources.
- c. Project personnel and contractors would be educated on and subject to the following requirements:
  - No dogs or firearms within the Project Area.
  - No littering within the Project Area.
  - Smoking within the Project Area would only be allowed in off-operator
    active locations or in specifically designated smoking areas. All cigarette
    butts would be placed in appropriate containers and not thrown on the
    ground or out windows of vehicles; personnel and contractors would abide
    by all fire restriction orders.
  - Campfires or uncontained fires of any kind would be prohibited.
  - Portable generators used in the Project Area would have spark arrestors.

#### d. Disturbance estimates:

#### **Approximate Acreage Disturbances**

Well Pad		3.616	acres
*Access	4,155 feet		
*Pipeline	4,059 feet		
Powerline	4,155 feet	14.307	acres

Total 17.92 acres

<sup>\*</sup>Access and Pipeline disturbance is included within the Powerline

**Bill Barrett Corporation** Surface Use Plan #14-11D-37 BTR Duchesne County, UT

#### **OPERATOR CERTIFICATION**

#### Certification:

I hereby certify that I, or someone under my direction supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein would be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application and that bond coverage is provided under Bill Barrett Corporations federal nationwide bond. These statements are subject to the provisions of 18 U.S.C. 1001 for the filings of false statements.

24th day of June 2011 Venessa Langmacher Executed this

Name: Senior Permit Analyst Position Title:

1099 18th Street, Suite 2300, Denver, CO 80202 Address:

303-312-8172 Telephone:

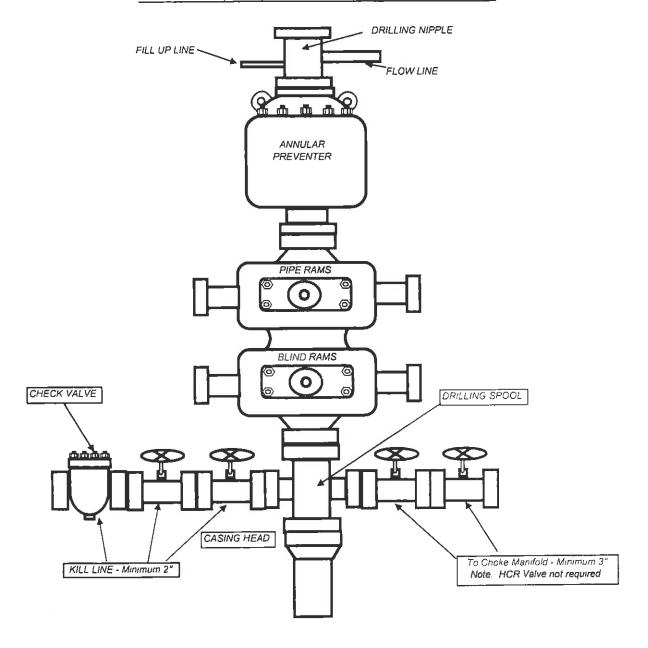
vlangmacher@billbarrettcorp.com E-mail: Field Representative Kary Eldredge / Bill Barrett Corporation 1820 W. Highway 40, Roosevelt, UT 84066 Address: 435-725-3515 (office); 435-724-6789 (mobile) Telephone:

E-mail: keldredge@billbarrettcorp.com

Venessa Langmacher, Senior Permit Analyst

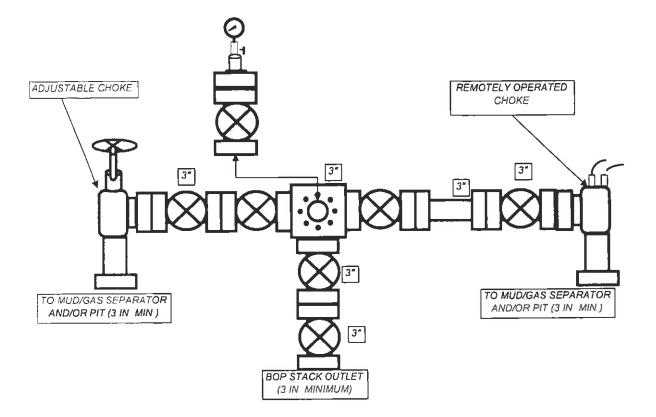
## **BILL BARRETT CORPORATION**

## TYPICAL 5,000 p.s.i. BLOWOUT PREVENTER



## **BILL BARRETT CORPORATION**

TYPICAL 5,000 p.s.i. CHOKE MANIFOLD





June 24, 2011

Ms. Diana Mason – Petroleum Technician State of Utah Division of Oil, Gas and Mining 1594 West North Temple, Suite 1210 P. O. Box 145801 Salt Lake City, Utah 84114-5801

Re: Directional Drilling R649-3-11

Blacktail Ridge Area #14-11D-37 BTR Well

Surface: 335' FSL & 1,359' FWL, SESW, 11-T3S-R7W, USM Bottom Hole: 810' FSL & 1,871' FWL, SESW, 11-T3S-R7W, USM

Duchesne County, Utah

Dear Ms. Mason,

Pursuant to the filing of Bill Barrett Corporation's ("BBC") Application for Permit to Drill the above referenced well, we hereby submit this letter in accordance with Oil & Gas Conservation Rules R649-2, R649-3, R649-10 and R649-11, pertaining to the Location and Siting of Wells.

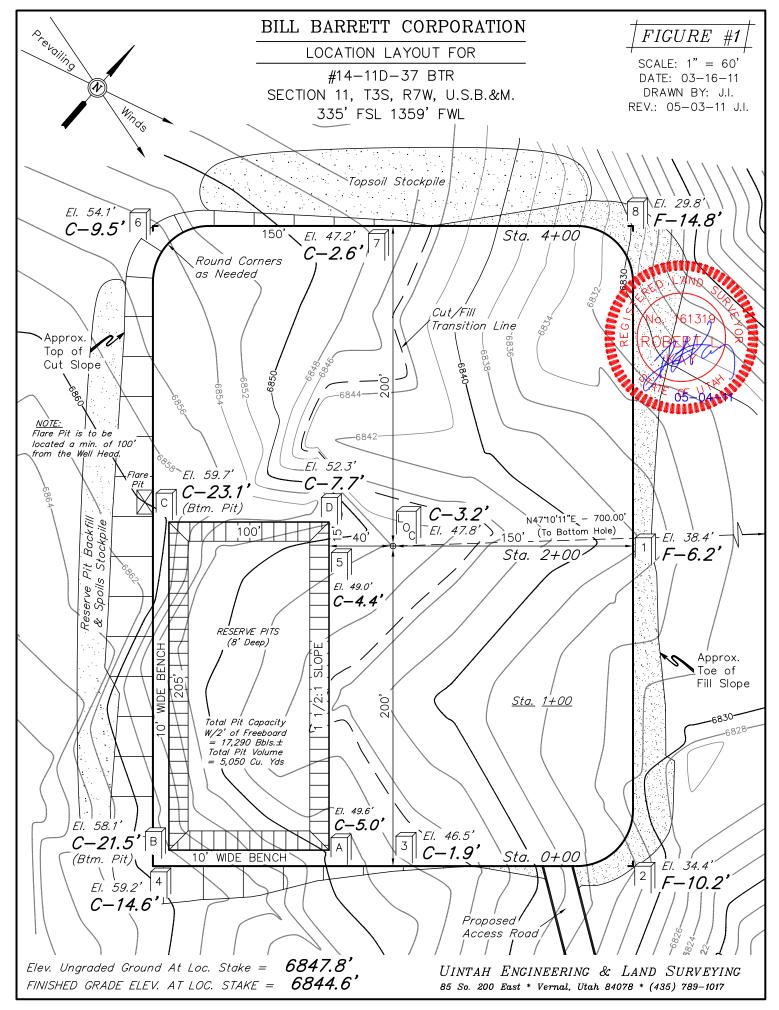
- The proposed location is within our Blacktail Ridge Area.
- BBC is permitting this well as a directional well in order to minimize surface disturbance. By locating the well at the surface location and directionally drilling from this location, BBC will be able to utilize the existing road and pipelines in the area.
- The well will be drilled under an Exploration and Development Agreement between the Ute Indian Tribe and Ute Distribution Corporation. Ute Energy, LLC owns a right to participate in this well.
- BBC certifies that it is the working interest owner of all lands within 460 feet of the proposed well location, and together with Ute Energy, LLC, we own 100% of the working interest in these lands.

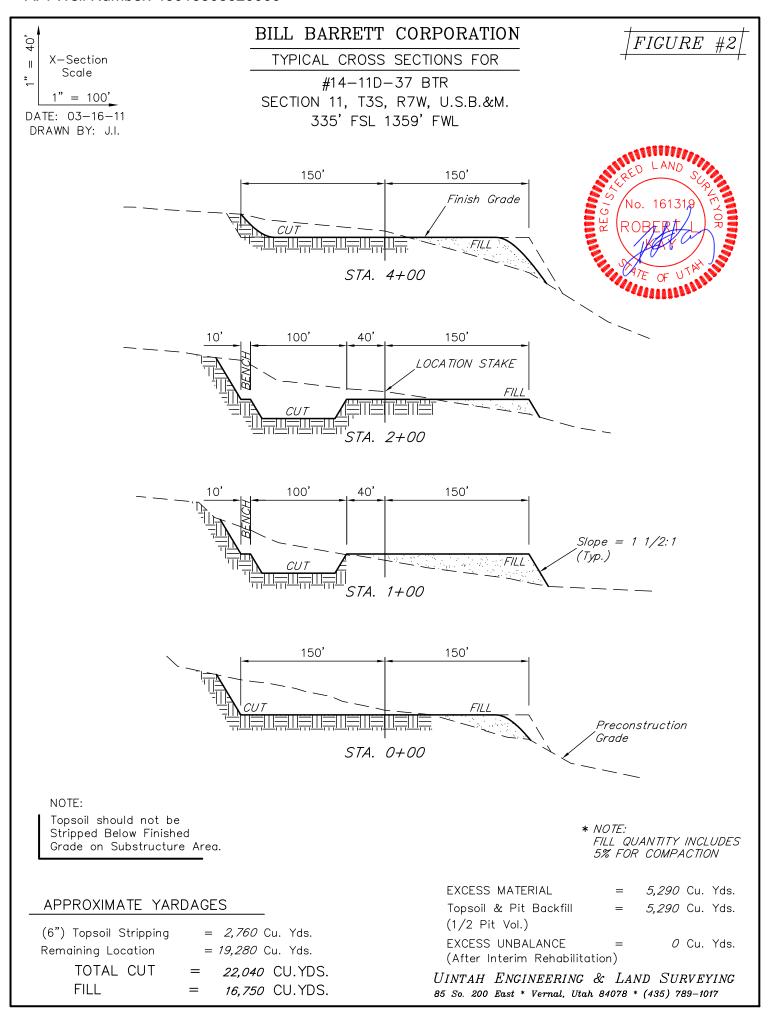
Based on the information provided, BBC requests that the permit be granted pursuant to R649-3-11. Should you have any questions or need further information, please contact me at 303-312-8544.

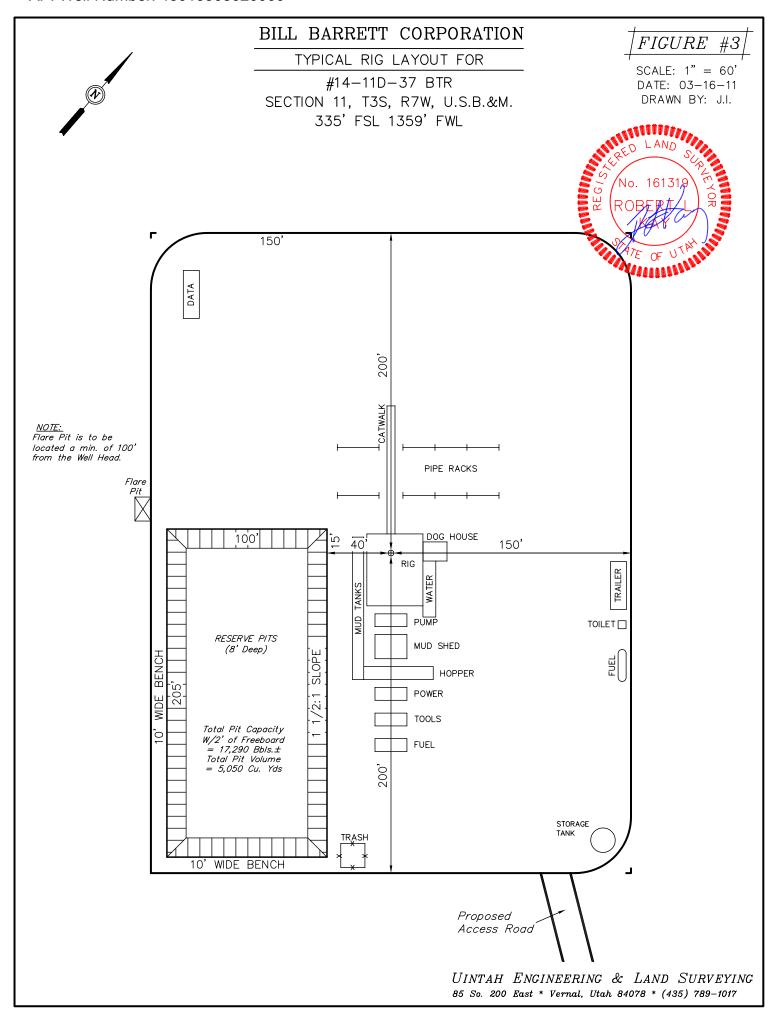
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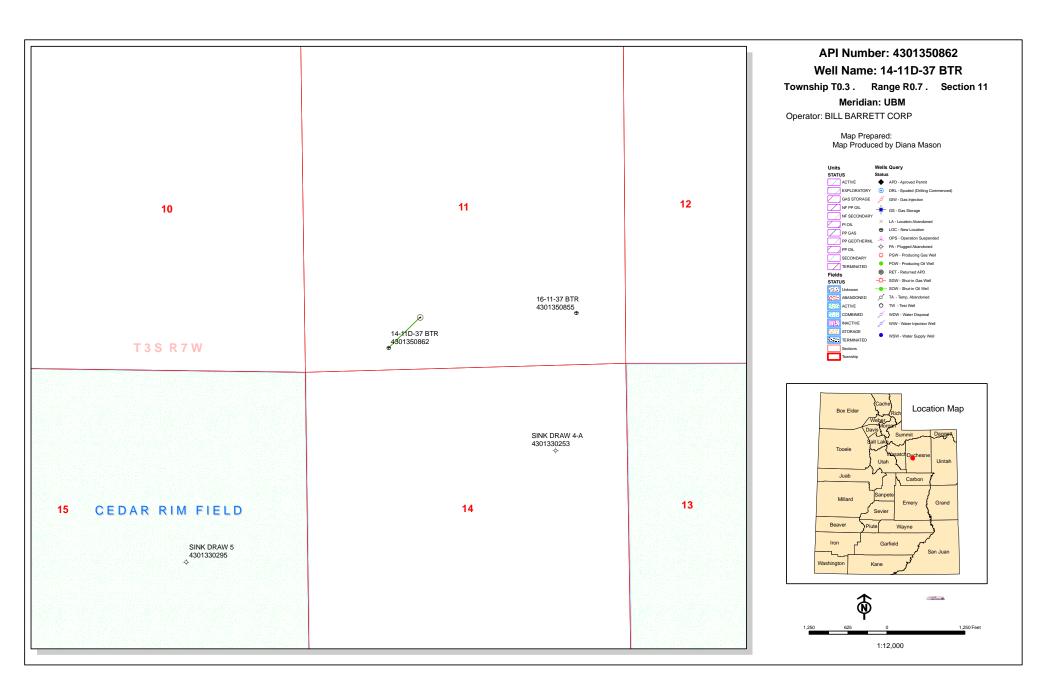
David Watts Landman

> 1099 18<sup>TH</sup> STREET SUITE 2300 DENVER, CO 80202 P 303.293.9100 F 303.291.0420









## **ON-SITE PREDRILL EVALUATION**

## Utah Division of Oil, Gas and Mining

**Operator** BILL BARRETT CORP

Well Name 14-11D-37 BTR

API Number 43013508620000 APD No 4108 Field/Unit UNDESIGNATED

**Location: 1/4,1/4** SESW **Sec** 11 **Tw** 3.0S **Rng** 7.0W 335 FSL 1359 FWL

GPS Coord (UTM) 530047 4452888 Surface Owner Ralph M. Giles Revocable Trust

#### **Participants**

James Hereford (BLM), Kary Eldredge (Bill Barrett), Roger Knight (Bill Barrett), Don Hamilton (Star Point), Trevor Anderson (UELS), Joe Avia (EIS), Richard Powell (DOGM), Kelly Jo Jackson (Montgomery)

#### Regional/Local Setting & Topography

This location sits on a north east facing slope poised approximately 1.5 miles south and west of Rabbit Gulch. Drainage from this location flows to a small draw directly to the north of the location which then flows to Rabbit Gulch. Rabbit Gulch is the dominate drainage wash and feature of this region and flows to Starvation Lake approximately 8 miles east. It is approximately 17 miles east to Duchesne, UT.

#### Surface Use Plan

**Current Surface Use** 

Wildlfe Habitat

Deer Winter Range

New Road Miles Well Pad Src Const Material Surface Formation

0.8 Width 290 Length 400 Onsite UNTA

**Ancillary Facilities** N

Waste Management Plan Adequate? Y

#### **Environmental Parameters**

Affected Floodplains and/or Wetlands N

#### Flora / Fauna

Deer, elk, coyote, rabbits and other small mammals, song birds, raptors Sage, prickly pear cactus, grasses, mahogany

#### Soil Type and Characteristics

Sandy soil, exposed rock on surface

**Erosion Issues** N

**Sedimentation Issues** N

Site Stability Issues N

**Drainage Diverson Required?** Y

Minor drainages must be diverted

Berm Required? N

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**Erosion Sedimentation Control Required?** N

Paleo Survey Run? N Paleo Potental Observed? N Cultural Survey Run? Y Cultural Resources? Y

#### **Reserve Pit**

Site-Specific Factors	Site Ra	nking	
Distance to Groundwater (feet)	>200	0	
Distance to Surface Water (feet)	>1000	0	
Dist. Nearest Municipal Well (ft)	>5280	0	
Distance to Other Wells (feet)	>1320	0	
Native Soil Type	High permeability	20	
Fluid Type	Fresh Water	5	
Drill Cuttings	Normal Rock	0	
<b>Annual Precipitation (inches)</b>	10 to 20	5	
<b>Affected Populations</b>			
<b>Presence Nearby Utility Conduits</b>	Not Present	0	
	Final Score	30	1 Sensitivity Level

#### **Characteristics / Requirements**

The reserve pit will be place in cut in a stable location. The pit will be 100ft x 205ft x 8ft deep with a total capacity including freeboard of 17,290bbl. Kary Eldredge of BBC said they will use a 20 mil liner with a felt sub-liner.

Closed Loop Mud Required? N Liner Required? Y Liner Thickness 16 Pit Underlayment Required? Y

#### **Other Observations / Comments**

Richard Powell 6/15/2011 **Evaluator Date / Time** 

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# **Application for Permit to Drill Statement of Basis**

7/11/2011 Utah Division of Oil, Gas and Mining

Page 1

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
4108	43013508620000	LOCKED	OW	P	No
Operator	BILL BARRETT CORP		Surface Owner-APD	Ralph M. Giles R	Levocable Trust
Well Name	14-11D-37 BTR		Unit		
Field	UNDESIGNATED		Type of Work	DRILL	

**Location** SESW 11 3S 7W U 335 FSL 1359 FWL GPS Coord (UTM) 530051E 4452873N

#### **Geologic Statement of Basis**

The mineral rights for the proposed well are owned by the Ute Tribe. The BLM will be the agency responsible for evaluating and approving the drilling, casing and cement programs.

Brad Hill 7/11/2011 **APD Evaluator Date / Time** 

#### **Surface Statement of Basis**

This onsite evaluation was scheduled by James Hereford of the BLM. According to Mr. Hereford, the land owner Ralph M. Giles was contacted but chose not to attend. Mr. Hereford related concerns which he did discuss with Mr. Giles. Mr. Giles requested that disturbance to the land be kept as minimal as possible. Also, there is a very old brush fence which Mr. Giles requested to be preserved. The access road to this particular well does not affect the brush fence but the earlier sections of road leading to wells which will be passed on the way to this well do cross or pass nearby the brush fence. During the onsite on Mr. Giles land, Kelly Jackson of Montgomery archeology flagged the brush fences to mark appropriate road rerouting.

Richard Powell 6/15/2011
Onsite Evaluator Date / Time

#### Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A synthetic liner with a minimum thickness of 16 mils with a felt subliner shall be properly installed and maintained in the reserve pit.
Surface	The well site shall be bermed to prevent fluids from leaving the pad.
Surface	Drainages adjacent to the proposed pad shall be diverted around the location.
Surface	The reserve pit shall be fenced upon completion of drilling operations.

## WORKSHEET APPLICATION FOR PERMIT TO DRILL

**APD RECEIVED:** 6/24/2011 API NO. ASSIGNED: 43013508620000 **WELL NAME: 14-11D-37 BTR PHONE NUMBER:** 303 312-8172 **OPERATOR:** BILL BARRETT CORP (N2165) **CONTACT:** Venessa Langmacher PROPOSED LOCATION: SESW 11 030S 070W **Permit Tech Review:** SURFACE: 0335 FSL 1359 FWL **Engineering Review: BOTTOM:** 0810 FSL 1871 FWL Geology Review: **COUNTY: DUCHESNE LATITUDE:** 40.22764 **LONGITUDE:** -110.64678 UTM SURF EASTINGS: 530051.00 NORTHINGS: 4452873.00 FIELD NAME: UNDESIGNATED **LEASE TYPE:** 2 - Indian **LEASE NUMBER: 20G0005608** PROPOSED PRODUCING FORMATION(S): GREEN RIVER-WASATCH **SURFACE OWNER: 4 - Fee COALBED METHANE: NO RECEIVED AND/OR REVIEWED: LOCATION AND SITING:**  PLAT R649-2-3. Bond: INDIAN - LPM8874725 Unit:

Potash

Oil Shale 190-5

Oil Shale 190-3

R649-3-2. General

R649-3-2. General

R649-3-2. General

Protash

R649-3-2. General

R649-3-1. Exception

Protash

Protash

Water Permit: Duchesne City Culinary Water Dock

Board Cause No: Cause 139-85

RDCC Review: Effective Date: 3/11/2010

Fee Surface Agreement

Siting: 4 Prod LGGRV-WSTC Wells in Drilling Units

Intent to Commingle R649-3-11. Directional Drill

**Commingling Approved** 

**Comments:** 

Stipulations:

Presite Completed

4 - Federal Approval - dmason 5 - Statement of Basis - bhill 15 - Directional - dmason

API Well No: 43013508620000



## State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

#### **Permit To Drill**

\*\*\*\*\*

Well Name: 14-11D-37 BTR
API Well Number: 43013508620000
Lease Number: 2OG0005608
Surface Owner: FEE (PRIVATE)

**Approval Date: 7/11/2011** 

#### **Issued to:**

BILL BARRETT CORP, 1099 18th Street Ste 2300, Denver, CO 80202

#### **Authority:**

Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 139-85. The expected producing formation or pool is the GREEN RIVER-WASATCH Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

#### **Duration:**

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

#### General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

#### **Conditions of Approval:**

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

#### **Notification Requirements:**

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

• Within 24 hours following the spudding of the well – contact Carol Daniels at 801-538-5284 (please leave a voicemail message if not available)
OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at http://oilgas.ogm.utah.gov

API Well No: 43013508620000

#### **Reporting Requirements:**

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) due within 5 days of spudding the well
- Monthly Status Report (Form 9) due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) due prior to implementation
- Written Notice of Emergency Changes (Form 9) due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) due prior to implementation
- Report of Water Encountered (Form 7) due within 30 days after completion
- Well Completion Report (Form 8) due within 30 days after completion or plugging

**Approved By:** 

For John Rogers Associate Director, Oil & Gas

					DEPARTMENT	ATE OF UTAH OF NATURAL RESC			AMEND	FOR ED REPOR		
					DIVISION OF	OIL, GAS AND M	INING					
APPLICATION FOR PERMIT TO DRILL							1. WELL NAME and	<b>NUMBER</b> 14-11D-3	7 BTR			
2. TYPE	OF WORK	DRILL NEW WEL	L REE	NTER P&A	WELL DEEPE	N WELL		3. FIELD OR WILDO	AT UNDESIGI	NATED		
4. TYPE	OF WELL		Oil Well	Coalbe	d Methane Well: NO			5. UNIT or COMMU	ITAZITI	ON AGRE	EMENT	NAME
6. NAME	OF OPERAT			L BARRE				7. OPERATOR PHON	<b>NE</b> 303 312	-8164		
8. ADDR	RESS OF OPER		)99 18th Street	Ste 230	0, Denver, CO, 80202			9. OPERATOR E-MA dspend	<b>IL</b> er@billbar	rettcorp.c	om	
	ERAL LEASE AL, INDIAN,				11. MINERAL OWNER	RSHIP AN 📵 STATE 🧐	) FEE	12. SURFACE OWNE	ERSHIP DIAN (	STATE		EE (III)
13. NAM	IE OF SURFA	CE OWNER (if be			vocable Trust			14. SURFACE OWN	R PHONE 435-828			~~
15. ADD	RESS OF SUF	RFACE OWNER (	if box 12 = 'f					16. SURFACE OWNE	R E-MAI	L (if box :	L2 = 'fe	e')
		E OR TRIBE NA			18. INTEND TO COM MULTIPLE FORMATION		ON FROM	19. SLANT				
(if box :	12 = 'INDIAN					ommingling Application	on) NO 📵	VERTICAL DIR	ECTIONAL	. 📵 н	ORIZON	TAL 🔵
20. LO	CATION OF W	/ELL		FOC	OTAGES	QTR-QTR	SECTION	TOWNSHIP	RAI	NGE	MER	IDIAN
LOCAT	ION AT SURF	ACE		335 FSL	1359 FWL	SESW	11	3.0 S	7.0	W		U
Top of	Uppermost P	roducing Zone		812 FSL	1871 FWL	SESW	11	3.0 S	7.0	W		U
At Tota	al Depth			810 FSL	1871 FWL	SESW	11	3.0 S	7.0	W	U	
21. COU	INTY	DUCHESNE			22. DISTANCE TO NE	AREST LEASE LINE	(Feet)	23. NUMBER OF ACRES IN DRILLING UNIT				
					25. DISTANCE TO NE (Applied For Drilling		ME POOL	<b>26. PROPOSED DEPTH</b> MD: 11999 TVD: 11936				
27. ELE	VATION - GR	OUND LEVEL			28. BOND NUMBER			29. SOURCE OF DRI			E ADDI	TCABLE
		6848				LPM8874725			e City Culi			ICABLE
					Hole, Casing, a	and Cement Info	rmation					
String		Casing Size	Length	Weigh				Cement		Sacks		Weight
Cond	26	9.625	0 - 80 0 - 4000	65.0 36.0	Unknown	8.8	Halliburte	Unknown	nouun	620	0.0	0.0
Surf	12.25	9.625	0 - 4000	36.0	J-55 ST&C	8.8		on Light , Type Unk Premium , Type Ur		210	3.16 1.36	11.0
Prod	8.75	5.5	0 - 11999	17.0	P-110 LT&C	9.7	Trainbur torr	Unknown	IKITOWIT	770	2.31	11.0
- 1 4 4								Unknown		1030	1.42	13.5
					AT	TACHMENTS						
	VERIFY	THE FOLLOW	ING ARE A	ГТАСНЕ	D IN ACCORDANC	CE WITH THE UT	AH OIL AND (	GAS CONSERVATI	ON GEN	ERAL RI	JLES	
<b>I</b> ✓ V	VELL PLAT O	R MAP PREPARE	D BY LICENS	ED SURV	YEYOR OR ENGINEER	СОМЕ	PLETE DRILLING	PLAN				
AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)					ACE) FORM	5. IF OPERATO	R IS OTHER THAN T	HE LEASE	OWNER			
<b>≥</b> D												
DRILLE		SURVEY PLAN (	(IF DIRECTIO	NALLY C	PR HORIZONTALLY	торос	GRAPHICAL MA	P				
			(IF DIRECTIO		R HORIZONTALLY  Senior Permit Analyst		PHONE 303					
	<b>D)</b> Venessa Langr		(IF DIRECTIO	TITLE			PHONE 303		rp.com			
NAME SIGNA	<b>D)</b> Venessa Langr	nacher	(IF DIRECTIO	TITLE	Senior Permit Analyst 06/24/2011		PHONE 303	312-8172	rp.com			

#### **DRILLING PLAN**

#### **BILL BARRETT CORPORATION**

#### 14-11D-37 BTR Well Pad

SE SW, 335' FSL and 1359' FWL, Section 11, T3S, R7W, USB&M (surface hole) SE SW, 810' FSL and 1871' FWL, Section 11, T3S, R7W, USB&M (bottom hole) Duchesne County, Utah

## 1 - 2. <u>Estimated Tops of Geological Markers and Formations Expected to Contain Water, Oil and</u> Gas and Other Minerals

<b>Formation</b>	Depth – MD	Depth – TVD
Lower Green River*	7,374'	7,321'
Douglas Creek	8,139'	8,076'
Black Shale	8,689'	8,626'
Castle Peak	8,954'	8,891'
Uteland Butte	9,349'	9,286'
Wasatch*	9,789'	9,726'
TD	11,999'	11,936'

<sup>\*</sup>PROSPECTIVE PAY

The Wasatch and the Lower Green River are primary objectives for oil/gas.

#### 3. BOP and Pressure Containment Data

Depth Intervals	BOP Equipment
0 - 4,000	No pressure control required
4,000' – TD	11" 5000# Ram Type BOP
	11" 5000# Annular BOP
D '11' 1 .	1 . 1 1 11 11 11

- Drilling spool to accommodate choke and kill lines;
- Ancillary equipment and choke manifold rated at 5,000 psi. All BOP and BOPE tests will be in accordance with the requirements of onshore Order No. 2;
- The BLM and the State of Utah Division of Oil, Gas and Mining will be notified 24 hours in advance of all BOP pressure tests.
- BOP hand wheels may be underneath the sub-structure of the rig if the drilling rig used is set up To operate most efficiently in this manner.

#### 4. <u>Casing Program</u>

<b>Hole</b>	SETTING	G DEPTH	Casing	Casing	Casing		
<u>Size</u>	(FROM)	<u>(TO)</u>	<u>Size</u>	Weight	<u>Grade</u>	<b>Thread</b>	Condition
26"	Surface	80'	16"	65#			
12 1/4"	Surface	4,000'	9 5/8"	36#	J or K 55	BT&C	New
8 ¾"	Surface	TD	5 ½"	17#	P-110	LT&C	New
NOTE:	NOTE: In addition, 8 3/4" hole size may change to 7 7/8" at the point the bit is changed out.						

Bill Barrett Corporation Drilling Program #14-11D-37 BTR Duchesne County, Utah

#### 5. <u>Cementing Program</u>

Casing	Cementing
16" Conductor Casing	Grout
9 5/8" Surface Casing	Lead with approximately 620 sx Halliburton Light Premium with additives mixed at 11.0 ppg (yield = 3.16 ft <sup>3</sup> /sx) circulated to surface with 75% excess. Top of lead estimated at surface.
	<i>Tail</i> with approximately 210 sx Halliburton Premium cement with additives mixed at 14.8 ppg (yield = $1.36$ ft <sup>3</sup> /sx), calculated hole volume with 75% excess. Top of tail estimated at 3,500'.
5 1/2" Production Casing	Lead with approximately 770 sx Tuned Light cement with additives, mixed at 11.0 ppg (yield = 2.31 ft <sup>3</sup> /sx,). Top of lead estimated at 3,500'.
	Tail with approximately 1030 sx Halliburton Econocem cement with additives mixed at 13.5 ppg (yield = $1.42$ ft <sup>3</sup> /sx). Top of tail estimated at 8,189'.

#### 6. Mud Program

<u>Interval</u>	<u>Weight</u>	Viscosity	Fluid Loss (API filtrate)	<u>Remarks</u>
0' - 80'	8.3 - 8.8	26 - 36	NC	Freshwater Spud Mud Fluid
				System
80' - 4,000'	8.3 - 8.8	26 - 36	NC	Freshwater Spud Mud Fluid
				System
4,000' – TD	8.6 - 9.7	42-52	20 cc or less	DAP Polymer Fluid System

Note: Sufficient mud materials to maintain mud properties, control lost circulation and to contain "kicks" will be available at wellsite. BBC may require minor amounts of diesel to be added to its fluid system in order to reduce torque and drag.

#### 7. <u>Testing, Logging and Core Programs</u>

Cores	None anticipated
Testing	None anticipated; drill stem tests may be run on shows of interest;
Sampling	30' to 50' samples; surface casing to TD. Preserve samples all show intervals;
Surveys	MWD as needed to land wellbore;
Logging	DIL-GR-SP, FDC-CNL-GR-CALIPER-Pe-Microlog, Sonic-GR (all TD to surface).
	FMI & Sonic Scanner to be run at geologist's discretion.

Bill Barrett Corporation Drilling Program #14-11D-37 BTR Duchesne County, Utah

#### 8. Anticipated Abnormal Pressures or Temperatures

No abnormal pressures or temperatures or other hazards are anticipated.

Maximum anticipated bottom hole pressure equals approximately 6021 psi\* and maximum anticipated surface pressure equals approximately 3395 psi\*\* (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

\*Max Mud Wt x 0.052 x TD = A (bottom hole pressure)

#### 9. Auxiliary Equipment

- a) Upper kelly cock; lower Kelly cock will be installed while drilling
- b) Inside BOP or stab-in valve (available on rig floor)
- c) Safety valve(s) and subs to fit all string connections in use
- d) Mud monitoring will be visually observed

#### 10. Location and Type of Water Supply

Water for the drilling and completion will be trucked from the Duchesne City Culinary Water Dock located in Sec. 1, T4S, R5W.

#### 11. <u>Drilling Schedule</u>

Location Construction: January 2012 Spud: January 2012

Duration: 15 days drilling time

45 days completion time

<sup>\*\*</sup>Maximum surface pressure = A - (0.22 x TD)

#### PRESSURE CONTROL EQUIPMENT – Schematic Attached

## A. Type: Eleven (11) Inch Double Gate Hydraulic BOP with Eleven (11) Inch Annular Preventer. The blow out preventer will be equipped as follows:

- 1. One (1) blind ram (above).
- 2. One (1) pipe ram (below).
- 3. Drilling spool with two (2) side outlets (choke side 3-inch minimum, kill side 2-inch minimum).
- 4. 3-inch diameter choke line.
- 5. Two (2) choke line valves (3-inch minimum).
- 6. Kill line (2-inch minimum).
- 7. Two (2) chokes with one (1) remotely controlled from the rig floor.
- 8. Two (2) kill line valves, and a check valve (2-inch minimum).
- 9. Upper and lower kelly cock valves with handles available.
- 10. Safety valve(s) & subs to fit all drill string connections in use.
- 11. Inside BOP or float sub available.
- 12. Pressure gauge on choke manifold.
- 13. Fill-up line above the uppermost preventer.

#### **B. Pressure Rating:** 5,000 psi

#### C. Testing Procedure:

#### Annular Preventer

At a minimum, the Annular Preventer will be pressure tested to 50% of the rated working pressure for a period of ten (10) minutes or until provisions of the test are met, whichever is longer.

At a minimum the above pressure test will be performed:

- 1. When the annular preventer is initially installed;
- 2. Whenever any seal subject to test pressure is broken;
- 3. Following related repairs; and
- 4. At thirty (30) day intervals.

In addition, the Annular Preventer will be functionally operated at least weekly.

#### **Blow-Out Preventer**

At a minimum, the BOP, choke manifold, and related equipment will be pressure tested to the approved working pressure of the BOP stack (if isolated from the surface casing by a test plug) or to 70% of the internal yieldstrength of the surface casing (if the BOP is not isolated from the casing by a test plug). Pressure will be

maintained for a period of at least ten (10) minutes or until the requirmentsof the test are met, whichever is longer.

At a minimum, the above pressure test will be performed:

- 1. When the BOP is initially installed;
- 2. Whenever any seal subject to test pressure is broken;
- 3. Following related repairs; and
- 4. At thirty (30) day intervals.

In addition the pipe and blind rams will be activated each trip, but not more than once each day. All BOP drills and tests will be recorded in the IADC driller's log.

#### D. Choke Manifold Equipment:

All choke lines will be straight lines unless turns use tee blocks or are targeted with running tees, and will be anchored to prevent whip and vibration.

#### E. Accumulator:

The accumulator will have sufficient capacity to open the hydraulically-controlled choke line valve (if so equipped), close all rams plus the annular preventer, and retain a minimum of 200 psi above precharge on the closing manifold without the use of closing unit pumps. The fluid reservoir capacity will be double the usable fluid volume of the accumulator system capacity and the fluid level of the reservoir will be maintained at the manufacturer's recommendations.

The BOP system will have two (2) independent power sources to close the preventers. Nitrogen bottles (3 minimum) will be one (1) of these independent power sources and will maintain a charge equal to the manufacturer's specifications.

The accumulator precharge pressure test will be conducted prior to connecting the closing unit to the BOP stack and at least once every six (6) months thereafter. The accumulator pressure will be corrected if the measured precharge pressure is found to be above or below the maximum or minimum limits specified in the *Onshore Oil & Gas Order Number 2*.

A manual locking device (i.e. hand wheels) or automatic locking device will be installed on all systems of 2M or greater. A valve will be installed in the closing line as close as possible to the annular preventer to act as a locking device. This valve will be maintained in the open position and will be closed only when the power source for the accumulator is inoperative.

Remote controls shall be readily accessible to the driller. Remote controls for all 3M or greater systems will be capable of closing all preventers. Remote controls for 5M or greater systems will be capable of both opening and closing all preventers. Master controls will be at the accumulator and will be capable of opening and closing all preventers and the choke line valve (if so equipped).

#### F. Miscellaneous Information:

The Blow-Out Preventer and related pressure control equipment will be installed, tested and maintained in compliance with the specifications in and requirements of *Onshore Oil & Gas Order Number 2*. The hydraulic BOP closing unit will be located at least twenty-five (25) feet from the well head but readily accessible to the driller. Exact locations and configurations of the hydraulic BOP closing unit will depend upon the particular rig contracted to drill this hole.

A flare line will be installed after the choke manifold, extending 125 feet (minimum) from the center of the drill hole to a separate flare pit.



#### LAKE CANYON & BLACK TAIL RIDGE CEMENT VOLUMES

Well Name: <u>14-11D-37 BTR</u>

#### Surface Hole Data:

4,000'
0'
12.250"
9.625"

#### Calculated Data:

Lead Volume:	1918.3	ft³
Lead Fill:	3,500'	
Tail Volume:	274.0	ft°
Tail Fill:	500'	

#### **Cement Data:**

Lead Yield:	3.16	ft³/sk
% Excess:	75%	
Top of Lead:	0'	

Tail Yield:	1.36	ft°/sk
% Excess:	75%	
Top of Tail:	3,500'	

#### Calculated # of Sacks:

# SK's Lead:	620
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#### **Production Hole Data:**

Total Depth:	11,999'
Top of Cement:	3,500'
Top of Tail:	8,189'
OD of Hole:	8.750"
OD of Casing:	5.500"

#### **Calculated Data:**

Lead Volume:	1776.6	ft³
Lead Fill:	4,689'	
Tail Volume:	1443.7	ft³
Tail Fill:	3,810'	

#### Cement Data:

Lead Yield:	2.31	ft³/sk
Tail Yield:	1.42	ft <sup>3</sup> /sk
% Excess:	50%	

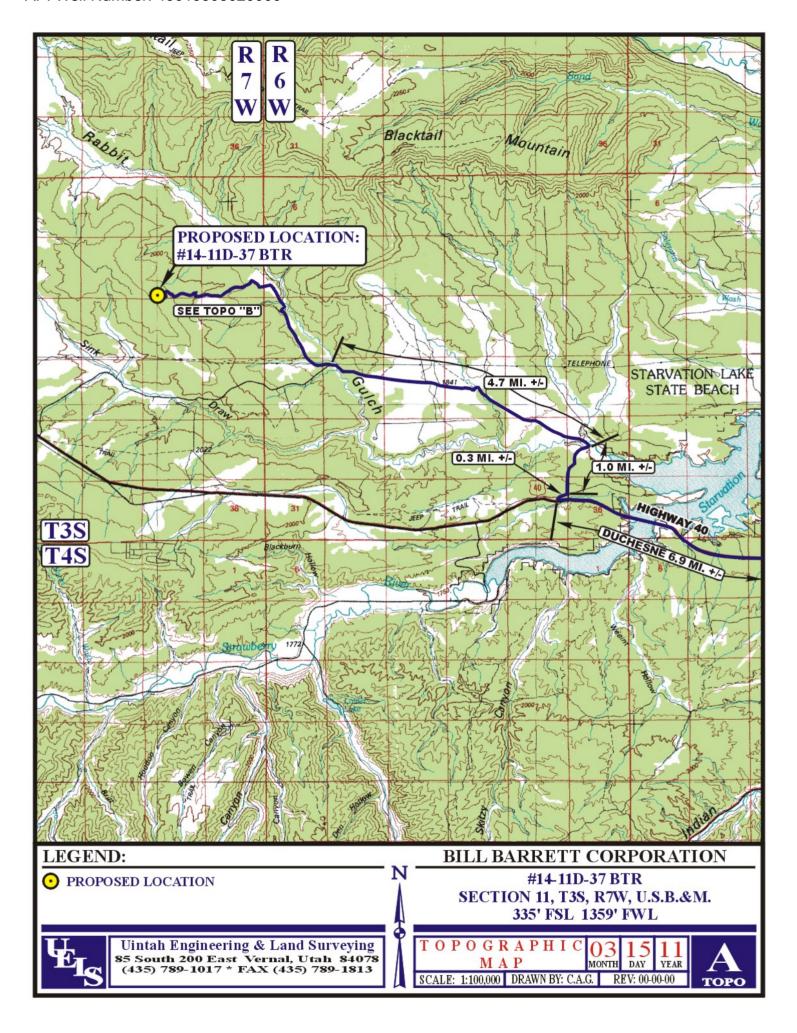
#### Calculated # of Sacks:

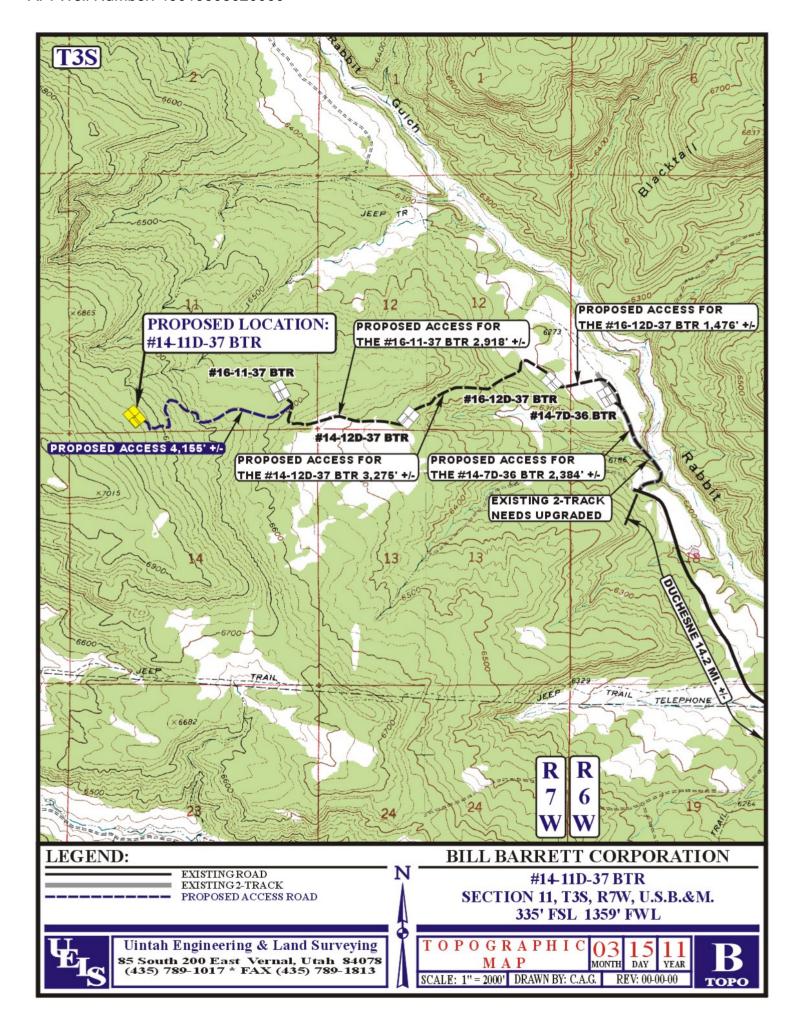
# SK's Lead:	770
# SK's Tail:	1030

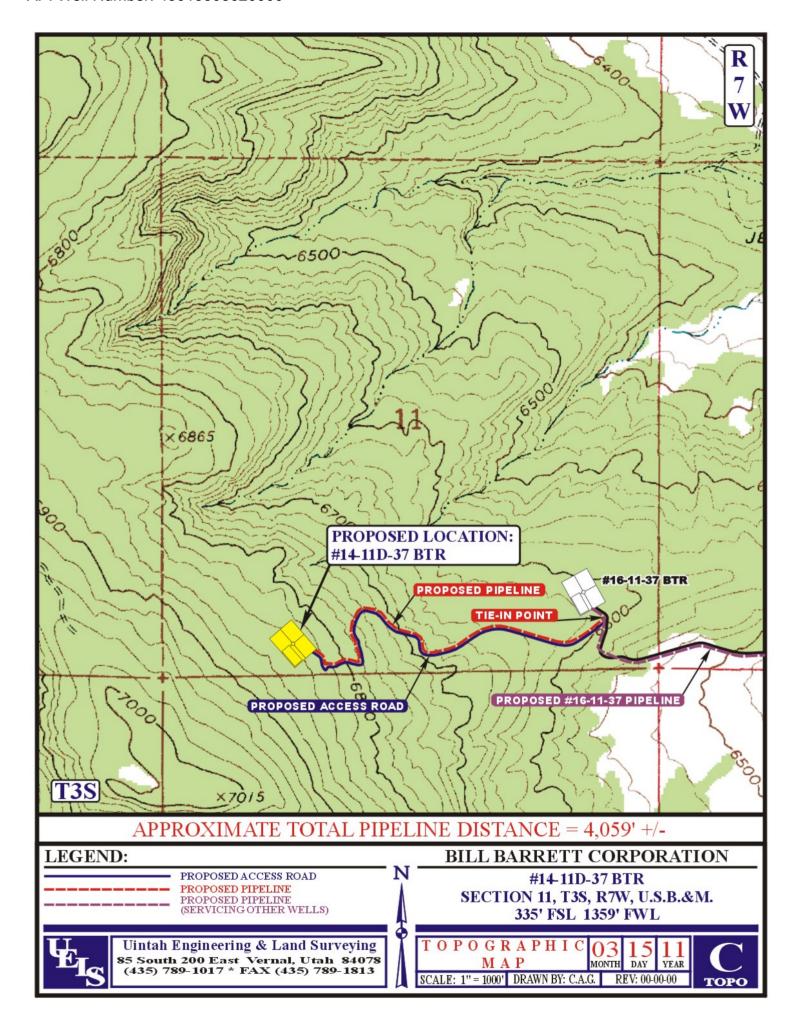
## 14-11D-37 BTR Proposed Cementing Program

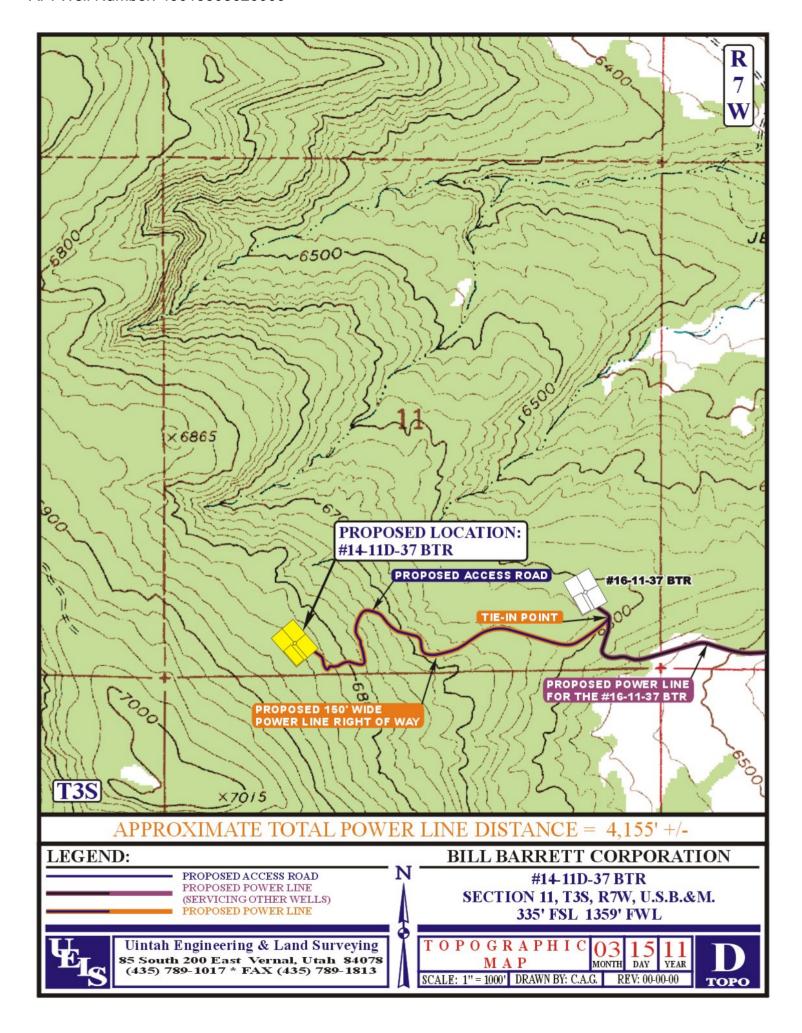
Job Recommendation		Sur	face Casing
Lead Cement - (3500' - 0')			
Halliburton Light Premium	Fluid Weight:	11.0	lbm/gal
5.0 lbm/sk Silicalite Compacted	Slurry Yield:	3.16	ft <sup>3</sup> /sk
0.25 lbm/sk Kwik Seal	Total Mixing Fluid:	19.48	Gal/sk
0.125 lbm/sk Poly-E-Flake	Top of Fluid:	0'	
2.0% Bentonite	Calculated Fill:	3,500'	
	Volume:	341.63	bbl
	Proposed Sacks:	620	sks
Tail Cement - (TD - 3500')			
Premium Cement	Fluid Weight:	14.8	lbm/gal
2.0% Calcium Chloride	Slurry Yield:	1.36	ft <sup>3</sup> /sk
	Total Mixing Fluid:	6.37	Gal/sk
	Top of Fluid:	3,500'	
	Calculated Fill:	500'	
	48.80	bbl	
	Proposed Sacks:	210	sks

Job Recommendation	<b>Production Casing</b>		
Lead Cement - (8189' - 3500')			
Tuned Light <sup>™</sup> System	Fluid Weight:	11.0	lbm/gal
	Slurry Yield:	2.31	ft <sup>3</sup> /sk
	Total Mixing Fluid:		
	Top of Fluid:	3,500'	
	Calculated Fill:	4,689'	
	Volume:	316.41	bbl
	Proposed Sacks:	770	sks
Tail Cement - (11999' - 8189')			
Econocem <sup>TM</sup> System	Fluid Weight:	13.5	lbm/gal
0.125 lbm/sk Poly-E-Flake	Slurry Yield:	1.42	ft <sup>3</sup> /sk
1.0 lbm/sk Granulite TR 1/4	Total Mixing Fluid:		Gal/sk
	Top of Fluid:	8,189'	
	Calculated Fill:	3,810'	
	Volume:	257.12	bbl
	Proposed Sacks:	1030	sks







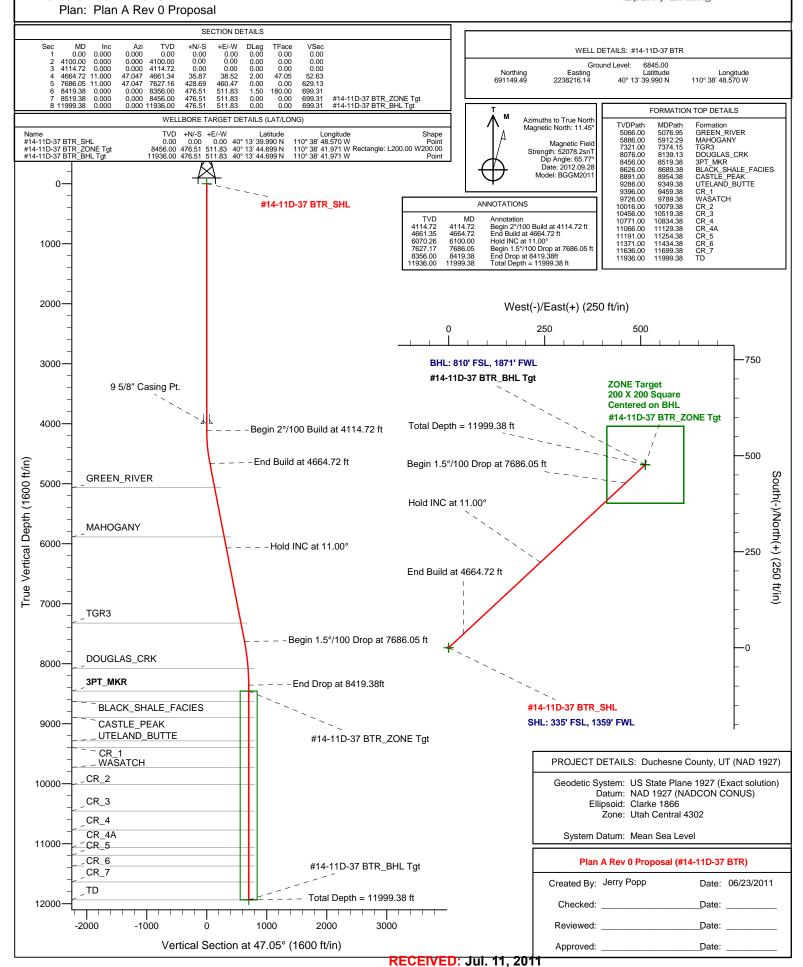


Project: Duchesne County, UT (NAD 1927)

Site: Sec. 11-T3S-R7W Well: #14-11D-37 BTR Wellbore: Plan A Rev 0

## Bill Barrett Corp





## Plan Report for #14-11D-37 BTR - Plan A Rev 0 Proposal

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Toolface Azimuth (°)
0.00	0.000	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.000	0.000	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.000	0.000	200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.000	0.000	300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.000	0.000	400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.000	0.000	500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.000	0.000	600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.000	0.000	700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.000	0.000	800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.000	0.000	900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.000	0.000		0.00		0.00		0.00		0.00
1,000.00 1,100.00	0.000	0.000	1,000.00 1,100.00	0.00	0.00 0.00	0.00	0.00 0.00	0.00	0.00 0.00	0.00
1,200.00	0.000	0.000	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.000	0.000	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.000	0.000	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
•			·							
1,500.00 1,600.00	0.000 0.000	0.000 0.000	1,500.00 1.600.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
1,700.00	0.000	0.000	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.000	0.000	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.000	0.000	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
•			·							
2,000.00 2.100.00	0.000	0.000	2,000.00 2.100.00	0.00	0.00	0.00	0.00	0.00	0.00 0.00	0.00 0.00
2,100.00	0.000 0.000	0.000 0.000	2,100.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00	0.00
2,200.00	0.000	0.000	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.000	0.000	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
•			·							
2,500.00	0.000	0.000	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00 2,700.00	0.000 0.000	0.000 0.000	2,600.00 2,700.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
2,800.00	0.000	0.000	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.000	0.000	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
•			·							
3,000.00	0.000	0.000	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.000	0.000 0.000	3,100.00 3,200.00	0.00	0.00 0.00	0.00 0.00	0.00	0.00	0.00 0.00	0.00 0.00
3,200.00 3,300.00	0.000 0.000	0.000	3,300.00	0.00 0.00	0.00	0.00	0.00 0.00	0.00 0.00	0.00	0.00
3,400.00	0.000	0.000	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
•			·							
3,500.00	0.000	0.000	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.000 0.000	0.000 0.000	3,600.00	0.00	0.00 0.00	0.00	0.00	0.00	0.00 0.00	0.00 0.00
3,700.00 3,800.00	0.000	0.000	3,700.00 3,800.00	0.00 0.00	0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00	0.00
3,900.00	0.000	0.000	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
•			,							
4,000.00	0.000	0.000	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9 5/8" Cas	_	0.000	4.400.00	0.00	0.00	0.00	2.02	0.00	0.00	0.00
4,100.00 4.114.72	0.000	0.000	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.000 <b>00 Build at 41</b>	0.000 <b>14.72</b> ft	4,114.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	1.706	47.047	4,199.99	0.86	0.93	1.27	2.00	2.00	0.00	47.05
4,300.00	3.706	47.047	4,299.87	4.08	4.38	5.99	2.00	2.00	0.00	0.00
4,400.00	5.706	47.047	4,399.53	9.67	10.39	14.19	2.00	2.00	0.00	0.00
4,500.00	7.706	47.047	4,498.84	17.63	18.93	25.87	2.00	2.00	0.00	0.00
4,600.00	9.706	47.047	4,597.68	27.94	30.01	41.00	2.00	2.00	0.00	0.00
4,664.72	11.000	47.047	4,661.35	35.87	38.52	52.63	2.00	2.00	0.00	0.00
	at 4664.72 ft									
4,700.00	11.000	47.047	4,695.98	40.45	43.45	59.37	0.00	0.00	0.00	0.00
4,800.00	11.000	47.047	4,794.14	53.45	57.42	78.45	0.00	0.00	0.00	0.00
4,900.00	11.000	47.047	4,892.30	66.46	71.38	97.53	0.00	0.00	0.00	0.00
5,000.00	11.000	47.047	4,990.47	79.46	85.35	116.61	0.00	0.00	0.00	0.00
5,076.95	11.000	47.047	5,066.00	89.46	96.09	131.29	0.00	0.00	0.00	0.00
GREEN_R	IVER									

## Plan Report for #14-11D-37 BTR - Plan A Rev 0 Proposal

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Toolface Azimuth (°)
5,100.00	11.000	47.047	5,088.63	92.46	99.31	135.69	0.00	0.00	0.00	0.00
5,200.00 5,300.00 5,400.00 5,500.00 5,600.00	11.000 11.000 11.000 11.000 11.000	47.047 47.047 47.047 47.047 47.047	5,186.79 5,284.96 5,383.12 5,481.28 5,579.44	105.46 118.46 131.46 144.47 157.47	113.28 127.24 141.21 155.18 169.14	154.77 173.85 192.93 212.01 231.09	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
5,700.00 5,800.00 5,900.00 5,912.29	11.000 11.000 11.000 11.000	47.047 47.047 47.047 47.047	5,677.61 5,775.77 5,873.93 5,886.00	170.47 183.47 196.47 198.07	183.11 197.07 211.04 212.75	250.18 269.26 288.34 290.68	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
6,000.00	11.000	47.047	5,972.09	209.48	225.00	307.42	0.00	0.00	0.00	0.00
6,100.00	11.000	47.047	6,070.26	222.48	238.97	326.50	0.00	0.00	0.00	0.00
Hold INC a										
6,200.00 6,300.00 6,400.00 6,500.00	11.000 11.000 11.000 11.000	47.047 47.047 47.047 47.047	6,168.42 6,266.58 6,364.75 6,462.91	235.48 248.48 261.48 274.48	252.93 266.90 280.86 294.83	345.58 364.66 383.74 402.82	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
6,600.00 6,700.00 6,800.00 6,900.00 7,000.00	11.000 11.000 11.000 11.000 11.000	47.047 47.047 47.047 47.047 47.047	6,561.07 6,659.23 6,757.40 6,855.56 6,953.72	287.49 300.49 313.49 326.49 339.49	308.80 322.76 336.73 350.69 364.66	421.90 440.98 460.07 479.15 498.23	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
7,100.00 7,200.00 7,300.00 7,374.15 <b>TGR3</b>	11.000 11.000 11.000 11.000	47.047 47.047 47.047 47.047	7,051.88 7,150.05 7,248.21 7,321.00	352.49 365.50 378.50 388.14	378.62 392.59 406.55 416.91	517.31 536.39 555.47 569.62	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
7,400.00	11.000	47.047	7,346.37	391.50	420.52	574.55	0.00	0.00	0.00	0.00
7,500.00 7,600.00 7,686.05	11.000 11.000 11.000	47.047 47.047 47.047	7,444.54 7,542.70 7,627.17	404.50 417.50 428.69	434.49 448.45 460.47	593.63 612.71 629.13	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
_	/100 Drop at 7									
7,700.00 7,800.00	10.791 9.291	47.047 47.047	7,640.87 7,739.33	430.49 442.37	462.40 475.16	631.77 649.20	1.50 1.50	-1.50 -1.50	0.00 0.00	180.00 180.00
7,900.00 8,000.00 8,100.00 8,139.13	7.791 6.291 4.791 4.204	47.047 47.047 47.047 47.047	7,838.22 7,937.46 8,036.99 8,076.00	452.49 460.84 467.42 469.51	486.03 495.00 502.07 504.31	664.05 676.31 685.97 689.03	1.50 1.50 1.50 1.50	-1.50 -1.50 -1.50 -1.50	0.00 0.00 0.00 0.00	180.00 180.00 180.00 180.00
8,200.00	3.291	47.047	8,136.74	472.22	507.22	693.01	1.50	-1.50	0.00	-180.00
8,300.00 8,400.00 8,419.38	1.791 0.291 0.000 at 8419.38ft	47.047 47.047 0.000	8,236.64 8,336.62 8,356.00	475.24 476.48 476.51	510.47 511.80 511.83	697.44 699.26 699.31	1.50 1.50 1.50	-1.50 -1.50 -1.50	0.00 0.00 0.00	180.00 180.00 -180.00
8,500.00 8,519.38	0.000 0.000 - <b>#14-11D-37</b>	0.000 0.000 BTR_ZONE T	8,436.62 8,456.00	476.51 476.51	511.83 511.83	699.31 699.31	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
8,600.00 8,689.38 BLACK_S	0.000 0.000 HALE_FACIES	0.000 0.000	8,536.62 8,626.00	476.51 476.51	511.83 511.83	699.31 699.31	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
8,700.00 8,800.00 8,900.00	0.000 0.000 0.000	0.000 0.000 0.000	8,636.62 8,736.62 8,836.62	476.51 476.51 476.51	511.83 511.83 511.83	699.31 699.31 699.31	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
8,954.38 <b>CASTLE_F</b>	0.000 <b>PEAK</b>	0.000	8,891.00	476.51	511.83	699.31	0.00	0.00	0.00	0.00
9,000.00 9,100.00	0.000 0.000	0.000 0.000	8,936.62 9,036.62	476.51 476.51	511.83 511.83	699.31 699.31	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00

## Plan Report for #14-11D-37 BTR - Plan A Rev 0 Proposal

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Toolface Azimuth (°)
9,200.00 9,300.00	0.000 0.000	0.000 0.000	9,136.62 9,236.62	476.51 476.51	511.83 511.83	699.31 699.31	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
9,349.38 <b>UTELAND</b>	0.000 <b>BUTTE</b>	0.000	9,286.00	476.51	511.83	699.31	0.00	0.00	0.00	0.00
9,400.00 9,459.38 <b>CR_1</b>	0.000 0.000	0.000 0.000	9,336.62 9,396.00	476.51 476.51	511.83 511.83	699.31 699.31	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
9,500.00 9,600.00	0.000 0.000	0.000 0.000	9,436.62 9,536.62	476.51 476.51	511.83 511.83	699.31 699.31	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
9,700.00 9,789.38 <b>WASATCH</b>	0.000 0.000	0.000 0.000	9,636.62 9,726.00	476.51 476.51	511.83 511.83	699.31 699.31	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
9,800.00 9,900.00 10,000.00	0.000 0.000 0.000	0.000 0.000 0.000	9,736.62 9,836.62 9,936.62	476.51 476.51 476.51	511.83 511.83 511.83	699.31 699.31 699.31	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
10,079.38 CR_2	0.000	0.000	10,016.00	476.51	511.83	699.31	0.00	0.00	0.00	0.00
10,100.00 10,200.00 10,300.00 10,400.00	0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000	10,036.62 10,136.62 10,236.62 10,336.62	476.51 476.51 476.51 476.51	511.83 511.83 511.83 511.83	699.31 699.31 699.31	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
10,500.00 10,519.38 <b>CR_3</b>	0.000 0.000	0.000 0.000	10,436.62 10,456.00	476.51 476.51	511.83 511.83	699.31 699.31	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
10,600.00 10,700.00 10,800.00	0.000 0.000 0.000	0.000 0.000 0.000	10,536.62 10,636.62 10,736.62	476.51 476.51 476.51	511.83 511.83 511.83	699.31 699.31 699.31	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
10,834.38 CR_4	0.000	0.000	10,771.00	476.51	511.83	699.31	0.00	0.00	0.00	0.00
10,900.00 11,000.00 11,100.00 11,129.38 CR_4A	0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000	10,836.62 10,936.62 11,036.62 11,066.00	476.51 476.51 476.51 476.51	511.83 511.83 511.83 511.83	699.31 699.31 699.31 699.31	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
11,200.00 11,254.38 <b>CR_5</b>	0.000 0.000	0.000 0.000	11,136.62 11,191.00	476.51 476.51	511.83 511.83	699.31 699.31	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
11,300.00 11,400.00 11,434.38 CR_6	0.000 0.000 0.000	0.000 0.000 0.000	11,236.62 11,336.62 11,371.00	476.51 476.51 476.51	511.83 511.83 511.83	699.31 699.31 699.31	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
11,500.00 11,600.00 11,699.38 CR_7	0.000 0.000 0.000	0.000 0.000 0.000	11,436.62 11,536.62 11,636.00	476.51 476.51 476.51	511.83 511.83 511.83	699.31 699.31 699.31	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
11,700.00 11,800.00	0.000 0.000	0.000 0.000	11,636.62 11,736.62	476.51 476.51	511.83 511.83	699.31 699.31	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
11,900.00 11,999.38 <b>TD - #14-1</b>	0.000 0.000 <b>1D-37 BTR_B</b> I	0.000 0.000 <b>HL Tgt</b>	11,836.62 11,936.00	476.51 476.51	511.83 511.83	699.31 699.31	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00

### Plan Report for #14-11D-37 BTR - Plan A Rev 0 Proposal

#### **Plan Annotations**

Measured	Vertical	Local Coor	dinates	
Depth	Depth	+N/-S	+E/-W	Comment
(ft)	(ft)	(ft)	(ft)	
4,114.72	4,114.72	0.00	0.00	Begin 2°/100 Build at 4114.72 ft
4,664.72	4,661.35	35.87	38.52	End Build at 4664.72 ft
6,100.00	6,070.26	222.48	238.97	Hold INC at 11.00°
7,686.05	7,627.17	428.69	460.47	Begin 1.5°/100 Drop at 7686.05 ft
8,419.38	8,356.00	476.51	511.83	End Drop at 8419.38ft
11,999.38	11,936.00	476.51	511.83	Total Depth = 11999.38 ft

#### **Vertical Section Information**

Angle			Origin	Origin		Start
Туре	Target	Azimuth (°)	Type	+N/_S (ft)	+E/-W (ft)	TVD (ft)
Target	#14-11D-37 BTR_BHL Tgt	47.047	Slot	0.00	0.00	0.00

#### Survey tool program

From	То		Survey/Plan	Survey Tool
(ft)	(ft)			
0.00	11,999.38	Plan A Rev 0 Proposal		MWD

#### **Casing Details**

Measured	Vertical			Casing	Hole
Depth	Depth		Name	Diameter	Diameter
(ft)	(ft)			(")	(")
4,000.00	4,000.00	9 5/8" Casing Pt.		9-5/8	13-1/2

#### **Formation Details**

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip Dip Direction (°) (°)
5,076.95	5,066.00	GREEN_RIVER		
5,912.29	5,886.00	MAHOGANY		
7,374.15	7,321.00	TGR3		
8,139.13	8,076.00	DOUGLAS_CRK		
8,519.38	8,456.00	3PT_MKR		
8,689.38	8,626.00	BLACK_SHALE_FACIES		
8,954.38	8,891.00	CASTLE_PEAK		
9,349.38	9,286.00	UTELAND_BUTTE	UTELAND_BUTTE	
9,459.38	9,396.00	CR_1	CR_1	
9,789.38	9,726.00	WASATCH		
10,079.38	10,016.00	CR_2		
10,519.38	10,456.00	CR_3		
10,834.38	10,771.00	CR_4		
11,129.38	11,066.00	CR_4A		
11,254.38	11,191.00	CR_5		
11,434.38	11,371.00	CR_6		
11,699.38	11,636.00	CR_7		
11,999.38	11,936.00	TD		

## Plan Report for #14-11D-37 BTR - Plan A Rev 0 Proposal

#### Targets associated with this wellbore

	TVD	+N/-S	+E/-W	
Target Name	(ft)	(ft)	(ft)	Shape
#14-11D-37 BTR_SHL	0.00	0.00	0.00	Point
#14-11D-37 BTR_BHL Tgt	11,936.00	476.51	511.83	Point
#14-11D-37 BTR ZONE Tgt	8,456.00	476.51	511.83	Rectangle

#### North Reference Sheet for Sec. 11-T3S-R7W - #14-11D-37 BTR - Plan A Rev 0

All data is in US Feet unless otherwise stated. Directions and Coordinates are relative to True North Reference.

Vertical Depths are relative to RKB 16' @ 6861.00ft (Patterson 506). Northing and Easting are relative to #14-11D-37 BTR

Coordinate System is US State Plane 1927 (Exact solution), Utah Central 4302 using datum NAD 1927 (NADCON CONUS), ellipsoid Clarke 1866

Projection method is Lambert Conformal Conic (2 parallel)

Central Meridian is -111.50°, Longitude Origin:0° 0' 0.000 E°, Latitude Origin:40° 39' 0.000 N°

False Easting: 2,000,000.00ft, False Northing: 0.00ft, Scale Reduction: 0.99992227

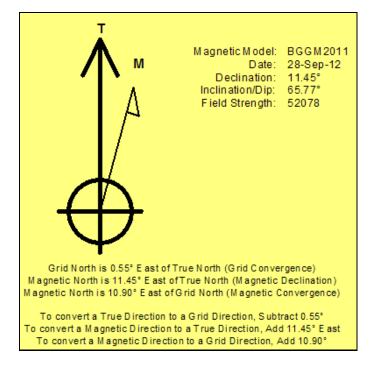
Grid Coordinates of Well: 691,149.49 ft N, 2,238,216.14 ft E

Geographical Coordinates of Well: 40° 13' 39.99" N, 110° 38' 48.57" W

Grid Convergence at Surface is: 0.55°

Based upon Minimum Curvature type calculations, at a Measured Depth of 11,999.38ft the Bottom Hole Displacement is 699.31ft in the Direction of 47.05° (True).

Magnetic Convergence at surface is: -10.90° (28 September 2012, , BGGM2011)



#### SURFACE DAMAGE AND RIGHT-OF-WAY SETTLEMENT AGREEMENT

This Agreement, made and entered into this the 5th day of April, 2011, by and between Ralph M. Giles, Trustee of the Ralph M. Giles Revocable Trust, with an address of P.O. Box 405, Tabiona, UT 84072-0405, ("Surface Owner"), and, Bill Barrett Corporation, 1099 18th Street, Suite 2300, Denver CO 80202, ("BBC").

#### WITNESSETH THAT:

WHEREAS, BBC owns undivided interests in certain oil and gas leases ("leases") covering and affecting Sections 11 and 12, Township 3 South, Range 7 West, USM, of Duchesne County, Utah; and,

WHEREAS, such leases grant to BBC the right and privilege of ingress, egress, exploring, drilling, mining, operating for, producing and owning oil and gas and all other products produced therewith, together with the right to make surveys on said lands, lay pipelines, construct roads and bridges, dig canals, build power stations, telephone lines, employee houses and other structures on said lands, necessary or useful in BBC's operations; and,

WHEREAS, BBC, pursuant to its rights under the Leases, intends to drill the following wells:

#14-11-37 BTR,

#16-11-37 BTR,

#14-12-37 BTR, and,

#16-12-37 BTR wells at legal drill-site locations in the S1/2 of Sections 11 and 12, Township 3 South, Range 7 West, USM, Duchesne County, Utah; and,

WHEREAS, Surface Owner warrants ownership to the surface of at least specific portions of the S1/2 of Sections 11 and 12, Township 3 South, Range 7 West, USM, Duchesne County, Utah, and which warranted ownership is further subject to all oil, gas and other mineral rights which are reserved for the use and benefit of the owners thereof; and,

Page 1 of 3

Ralph M. Giles (435)828-4161

BBC shall maintain all roads used pursuant to this Agreement and shall install culverts where necessary to insure adequate drainage from all roads.

BBC shall repair any fences and gates damaged by them during the course of their operations on the lands subject to this Agreement.

Surface Owner and their heirs or assigns shall have full access and use of the road built pursuant to this Agreement.

This Agreement shall inure to the benefit of the parties hereto, their heirs, successors and assigns and shall be a burden running with the land.

This Agreement may be executed in any number of counterparts and all such counterparts shall be deemed to constitute a single Agreement and the execution of one counterpart by any party hereto shall have the same force and effect as if said party had signed all other counterparts.

IN WITNESS WHEREOF, the parties have executed this Surface Damage Settlement Agreement effective as of the <u>5th day of April, 2011.</u>

SURFACE OWNER: BI	LL BARRETT CORPORATION
By: Ble To Siles To restar B Ralph M. Giles, Trustee	y: Luluit (18 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
COUNTY OF Ducksne	
On the day of May, 20 Leigh M. Jules Trustee, known to me to the foregoing instrument and acknowledged purpose and consideration therein expressed	. 0
	Notary Public Residing at: Suchestle Witch 84021
My Commission Expires: /2 11 10//	
	CORALEE SANCHEZ 239 West 300 North Duchestre, Uteh 64021 My Commission Expires December 17, 2011 State of Utah
STATE OF UTAH ) ) COUNTY OF SALT LAKE )	
On the	said instrument was signed in behalf of said Board of Directors and said
	Och William lorthy Notary Public
My Commission Expires: 10-24-2049	Residing at:  DANIEL WILLIAM COSTLEY  NOTATY PUBLIC-STATE OF UTUAN  COMMISSIONS 606945  COMM. EXP. 10-24-2014

#### **SURFACE USE PLAN**

#### **BILL BARRETT CORPORATION**

### 14-11D-37 BTR Well Pad

SE SW, 335' FSL and 1359' FWL, Section 11, T3S, R7W, USB&M (surface hole) SE SW, 810' FSL and 1871' FWL, Section 11, T3S, R7W, USB&M (bottom hole) Duchesne County, Utah

The onsite inspection with the surface owner was completed on June 15, 2011. Site specific conditions and/or mitigation measures will be as follows:

- 1. Stockpile wood for landowner
- 2. Utilize 20 mil liner over felt (minimum)
- 3. Solid Rock Construction

The excavation contractor would be provided with an approved copy of the surface use plan of operations before initiating construction.

### 1. Existing Roads:

- a. The proposed well site is located approximately 16.9 miles northwest of Duchesne, Utah. Maps and directions reflecting the route to the proposed well site are included (see Topographic maps A and B).
- b. The existing Duchesne County maintained Koch Road (CR 23) would be utilized for 5.7 miles to an existing El Paso maintained access road that would be utilized for 1.3 miles that provides access to the planned new access road.
- c. Project roads would require routine year-round maintenance to provide year-round access. Maintenance would include inspections, reduction of ruts and holes, maintenance to keep water off the road, replacement of surfacing materials, and clearing of sediment blocking ditches and culverts. Should snow removal become necessary, roads would be cleared with a motor grader and snow would be stored along the down gradient side to prohibit runoff onto the road. Aggregate would be used as necessary to maintain a solid running surface and minimize dust generation.
- d. Vehicle operators would obey posted speed restrictions and observe safe speeds commensurate with road and weather conditions. Travel would be limited to the existing access roads and proposed access road.
- e. The use of roads under State and Duchesne County Road Department maintenance are necessary to access the project area with no improvements proposed. No encroachment or pipeline crossing permit are required
- f. All existing roads would be maintained and kept in good repair during all phases of operation.

Bill Barrett Corporation Surface Use Plan #14-11D-37 BTR Duchesne County, UT

# 2. <u>Planned Access Road</u>:

- a. Approximately 4,155 feet of new access road trending west is planned from the proposed 16-11-37 BTR, 14-12D-37, 16-12D-37, 14-7D-36 BTR access roads. The 16-11-37, 14-12D-37, 16-12D-37, 14-7D-36 BTR access has been applied for and continues an additional 10,053 feet to the existing El Paso maintained access road (see Topographic Map B).
- b. The road would be constructed to a 30-foot ROW width with an 18-foot travel surface. See section 12.d. below for disturbance estimates.
- c. New road construction and improvements of existing roads would typically require the use of motor graders, crawler tractors, 10-yard end dump trucks, and water trucks. The standard methodology for building new roads involves the use of a crawler tractor or track hoe to windrow the vegetation to one side of the road corridor, remove topsoil to the opposing side of the corridor, and rough-in the roadway. This is followed by a grader or bulldozer to establish barrow ditches and crown the road surface. Where culverts are required, a track hoe or backhoe would trench the road and install the culverts. Some hand labor would be required when installing and armoring culverts. Road base or gravel in some instances would be necessary and would be hauled in and a grader used to smooth the running surface.
- d. The proposed road would be constructed to facilitate drainage, control erosion and minimize visual impacts by following natural contours where practical. No unnecessary side-casting of material would occur on steep slopes.
- e. A maximum grade of 10% would be maintained throughout the project with minimum cuts and fills, as necessary, to access the well.
- f. Excess rock from construction of the pad may be used for surfacing of the access road if necessary. Any additional aggregate necessary would be obtained from private or State of Utah lands in conformance with applicable regulations. Aggregate would be of sufficient size, type, and amount to allow all weather access and alleviate dust.
- g. Where topsoil removal is necessary, it would be windrowed (i.e. stockpiled/accumulated along the edge of the ROW and in a low row/pile parallel with the ROW) and re-spread over the disturbed area after construction and backfilling are completed. Vegetation removed from the disturbed area would also be re-spread to provide protection, nutrient recycling, and a seed source for reclamation.
- h. Turnouts are not proposed because the access road is short and adequate site distance exists in all directions.

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- i. No culverts or low-water crossings are anticipated. Adequate drainage structures, where necessary, would be incorporated into the remainder of the road to prevent soil erosion and accommodate all-weather traffic.
- j. No gates or cattle guards are anticipated at this time.
- k. Surface disturbance and vehicular travel would be limited to the approved location access road. Adequate signs would be posted, as necessary, to warn the public of project related traffic.
- All access roads and surface disturbing activities would conform to the
  appropriate standard, **no higher than necessary**, to accommodate their intended
  function adequately as outlined in the Bureau of Land Management and Forest
  Service publication: <u>Surface Operating Standards for Oil and Gas Exploration</u>
  and Development, Fourth Edition Revised 2007.
- m. The operator would be responsible for all maintenance needs of the new access road.

# 3. <u>Location of Existing Wells (see One-Mile Radius Map):</u>

a. Following is a list of wells with surface hole locations within a one-mile radius of the proposed pad:

i.	water wells	none
ii.	injection wells	none
iii.	disposal wells	none
iv.	drilling wells	none
v.	temp shut-in wells	none
vi.	producing wells	none
vii.	abandoned wells	two

#### 4. Location of Production Facilities

- a. Surface facilities would consist of a wellhead, separator, gas meter, (1) 500 gal methanol tank, (1) 500 glycol tank, (3) 500 bbl oil tanks, (1) 500 bbl water tank, (1) 500 bbl test tank, (1) 1000 gal propane tank, a pumping unit or Roto-flex unit or gas lift unit with a natural gas fired motor, solar panels, solar chemical and methanol pumps and one trace pump. See attached proposed facility diagram.
- b. Most wells would be fitted with a pump jack or Roto-flex unit or gas lift to assist liquid production if liquid volumes and/or low formation pressures require it. Plunger lift systems do not require any outside source of energy. The prime mover for pump jacks or Roto-flex units would be small (75 horsepower or less), natural gas-fired internal combustion engines. If a gas lift is installed, it would be set on a 10 ft x 15 ft pad and the prime mover would be a natural gas-fired internal combustion engine rated at 200 horsepower or less or an electric compressor of similar horsepower powered by a generator.

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- c. The tank battery would be surrounded by a secondary containment berm of sufficient capacity to contain 1.1 times the entire capacity of the largest single tank and sufficient freeboard to contain precipitation. All loading lines and valves would be placed inside the berm surrounding the tank battery or would utilize catchment basins to contain spills. All liquid hydrocarbon production and measurement shall conform to the provisions of 43 CFR 3162.7-2 and Onshore Oil and Gas Order No. 4 for the measurement of oil.
- d. Gas meter run(s) would be constructed and located on lease within 500 feet of the wellheads. Meter runs would be housed and/or fenced. As practicably feasible, meters would be equipped with remote telemetry monitoring systems. All gas production and measurement shall comply with the provisions of 43 CFR 3162.7-3, Onshore Oil and Gas Order No. 5, and American Gas Association (AGA) Report No. 3.
- e. A combustor may be installed at this location for control of associated condensate tank emissions. A combustor ranges from 24 inches to 48 inches wide and is approximately 27 ft tall. Combustor placement would be on existing disturbance.
- f. Approximately 4,059 feet of pipeline corridor (see Topographic Map C) containing up to three lines (one gas pipeline up to 8 inch in diameter, one water line up to 4 inch in diameter and one residue line up to 4 inch in diameter) is proposed trending east to the proposed 16-11-37 BTR, 14-12D-37, 16-12D-37, 14-7D-36 BTR pipeline corridor. The 16-11-37 BTR, 14-12D-37, 16-12D-37, 14-7D-36 BTR pipeline corridors have been applied for and continue approximately 10,053 feet to the existing pipeline corridor. Pipelines would be constructed of steel, polyethylene or fiberglass and would connect to the proposed pipeline servicing nearby BBC and El Paso wells. The pipeline crosses entirely private surface.
- g. The new segment of gas pipeline would be surface laid within a 30 foot wide pipeline corridor adjacent to the proposed access road. See 12.d below for disturbance estimates.
- h. Construction of the ROW would temporarily utilize the 30 foot disturbed width for the road for a total disturbed width of 60 foot for the road and pipeline corridors. The use of the proposed well site and access roads would facilitate the staging of the pipeline construction.
- Pipeline construction methods and practices would be planned and conducted by BBC with the objective of enhancing reclamation and fostering the reestablishment of the native plant community.
- j. All permanent above-ground structures would be painted a flat, non-reflective color, such as Beetle Green, to match the standard environmental colors. All facilities would be painted the designated color at the time of installation.

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Facilities required to comply with the Occupational Safety and Health Act (OSHA) may be excluded.

- k. Site security guidelines identified in 43 CFR 3162.7-5 and Onshore Oil and Gas Order No. 3 would be adhered to. Any modifications to proposed facilities would be reflected in the site security diagram submitted.
- 1. The site would require periodic maintenance to ensure that drainages are kept open and free of debris, and that surfaces are properly treated to reduce erosion, fugitive dust, and impacts to adjacent areas.

# 5. <u>Location and Type of Water Supply:</u>

a. Water for the drilling and completion would be trucked from any of the following locations:

Water Right No. and Application or Change No.	Applicant	Allocation	Date	Point of Diversion	Source
43-180	Duchesne City Water Service District	5 cfs	8/13/2004	Knight Diversion Dam	Duchesne River
43-1202, Change a13837	Myton City	5.49 cfr and 3967 acre feet	3/21/1986	Knight Diversion Dam	Duchesne River
43-10444, Appln A57477	Duchesne County Upper Country Water	2 cfs	1994	Ditch at Source	Cow Canyon Spring
43-10446, Appln F57432	Duchesne County Upper Country Water	1.58 cfs	1994	Ditch at Source	Cow Canyon Spring
43-1273, Appln A17462	J.J.N.P. Company	7 cfs	1946	Strawberry River	Strawberry River
43-1273, Appln t36590	J.J.N.P. Company	4 cfs	6/03/2010	Strawberry River	Strawberry River

- b. No new water well is proposed with this application.
- c. Should additional water sources be pursued they would be properly permitted through the State of Utah Division of Water Rights.
- d. Water use would vary in accordance with the formations to be drilled but would be up to approximately 5.41 acre feet for drilling and completion operations.

#### 6. Source of Construction Material:

a. The use of materials would conform to 43 CFR 3610.2-3.

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- b. No construction materials would be removed from the lease or EDA area.
- c. If any additional gravel is required, it would be obtained from a local supplier having a permitted source of materials within the general area.

# 7. <u>Methods of Handling Waste Disposal:</u>

- a. All wastes associated with this application would be contained and disposed of utilizing approved facilities.
- b. The reserve pit would be constructed so as not to leak, break or allow any discharge.
- c. The reserve would be lined with 12 mil (minimum) thickness polyethylene nylon reinforced liner material. The liner(s) would overlay straw, dirt and/or bentonite if rock is encountered during excavation. The liner would overlap the pit walls and be covered with dirt and/or rocks to hold them in place. No trash, scrap pipe, or other materials that could puncture the liner would be discarded in the pit. A minimum of two feet of free board would be maintained between the maximum fluid level and the top of the reserve pit at all times.
- d. To deter livestock from entering the pit, the three sides exterior to the location would be fenced before drilling starts. Following the conclusion of drilling and completion activities, the fourth side would also be fenced.
- e. Drill cuttings would be contained in the pit and buried on-site for a period not to exceed six months, weather permitting
- f. Produced fluids from the well other than water would be decanted into steel test tank(s) until such time as construction of production facilities is completed. Any oil that may be accumulated would be transferred to a permanent production tank. Produced water may be used in further drilling and completion activities, evaporated in the pit, or would be hauled to one of the state-approved disposal facilities below:

#### **Disposal Facilities**

- 1. RNI Industries, Inc. Pleasant Valley Disposal Pits, Sec. 25, 26, 35 & 36, T4S-R3W
- 2. Pro Water LLC Blue Bench 13-1 Disposal Well (43-013-30971) NENE, Sec. 13, T3S-R5W
- 3. RN Industries, Inc. Bluebell Disposal Ponds, Sec. 2, 4 & 9, T2S-R2W
- 4. Water Disposal, Inc. Harmston 1-32-A1 Disposal Well (43-013-30224), UTR #00707, Sec. 32, T1S-R1W
- 5. Unified Water Pits Sec. 31, T2S-R4W
- 6. Iowa Tank Line Pits 8500 BLM Fence Road, Pleasant Valley

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- g. Any salts and/or chemicals, which are an integral part of the drilling system, would be disposed of in the same manner as the drilling fluid.
- h. Any spills of oil, condensate, produced or frac water, drilling fluids, or other potentially deleterious substances would be recovered and either returned to its origin or disposed of at an approved disposal site, most likely in Duchesne, Utah.
- i. Chemicals on the EPA's Consolidated List of Chemicals subject to reporting under Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) may be used or stored in quantities over reportable quantities. In the course of drilling, BBC could potentially store and use diesel fuel, sand (silica), hydrochloric acid, and CO<sub>2</sub> gas, all described as hazardous substances in 40 CFR Part 302, Section 302.4, in quantities exceeding 10,000 pounds. In addition, natural gas condensate and crude oil and methanol may be stored or used in reportable quantities. Small quantities of retail products (paint/spray paints, solvents {e.g., WD-40}, and lubrication oil) containing non-reportable volumes of hazardous substances may be stored and used on site at any time. No extremely hazardous substances, as defined in 40 CFR 355, would be used, produced, stored, transported or disposed of in association with the drilling, testing or completion of the wells.
- j. Portable toilets and trash containers would be located onsite during drilling and completion operations. A commercial supplier would install and maintain portable toilets and equipment and would be responsible for removing sanitary waste. Sanitary waste facilities (i.e. toilet holding tanks) would be regularly pumped and their contents disposed of at approved sewage disposal facilities in Duchesne, and/or Uintah Counties, in accordance with applicable rules and regulations regarding sewage treatment and disposal. Accumulated trash and nonflammable waste materials would be hauled to an approved landfill once a week or as often as necessary. All debris and waste materials not contained in the trash containers would be cleaned up, removed from the construction ROW, well pad, or worker housing location, and disposed of at an approved landfill. Trash would be cleaned up everyday.
- k. Sanitary waste equipment and trash bins would be removed from the Project Area upon completion of access road or pipeline construction; following drilling and completion operations at an individual well pad; when worker housing is no longer needed; or as required.
- 1. A flare pit may be constructed a minimum of 110' from the wellhead(s) and may be used during completion work. In the event a flare pit proves to be unworkable, a temporary flare stack or open top tank would be installed. BBC would flow back as much fluid and gas as possible into pressurized vessels, separating the fluids from the gas. In some instances, due to the completion fluids utilized within the Project Area, it is not feasible to direct the flow stream from the wellbore through pressurized vessels. In such instances BBC proposes to direct the flow to the open top tanks until flow through the pressurized vessels is feasible. At which point the fluid would either be returned to the reserve pit or

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placed into a tank(s). The gas would be directed to the flare pit, flare stack (each with a constant source of ignition), or may be directed into the sales pipeline.

m. Hydrocarbons would be removed from the reserve pit would as soon as practical. In the event immediate removal is not practical, the reserve pit would be flagged overhead or covered with wire or plastic mesh to protect migrating birds.

# 8. <u>Ancillary Facilities:</u>

- a. Garbage containers and portable toilets would be located on the well pad.
- b. On well pads where active drilling and completion is occurring, temporary housing would be provided on location for the well pad supervisor, geologist, tool pusher, and others that are required to be on location at all times. The well pad could include up to five single wide mobile homes or fifth wheel campers/trailers.
- c. A surface powerline corridor 4,155 feet in length is proposed for installation by third-party installer within a 150 foot wide powerline corridor adjacent to the proposed access road. See 12.d below for disturbance estimates.

# 9. Well Site Layout:

- a. The well would be properly identified in accordance with 43 CFR 3162.6.
- b. The pad layout, cross section diagrams and rig layout are enclosed (see Figures 1 and 2).
- c. The pad and road designs are consistent with industry specifications.
- d. The pad has been staked at its maximum size of 400 feet x 300 feet with an inboard reserve pit size of 100 feet x 205 feet x 8 feet deep. See section 12.d below for disturbance estimates.
- e. Within the approved well pad location, a crawler tractor would strip whatever topsoil is present and stockpile it along the edge of the well pad for use during reclamation. Vegetation would be distributed along the sides of the well pad.
- f. Fill from pit excavation would be stockpiled along the edge of the pit and the adjacent edge of the well pad.
- g. Use of erosion control measures, including proper grading to minimize slopes, diversion terraces and ditches, mulching, terracing, riprap, fiber matting, temporary sediment traps, and broad-based drainage dips or low water crossings would be employed by BBC as necessary and appropriate to minimize erosion and surface runoff during well pad construction and operation. Cut and fill slopes would be constructed such that stability would be maintained for the life of the activity.

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- h. All cut and fill slopes would be such that stability can be maintained for the life of the activity.
- i. Diversion ditches would be constructed, if necessary, around the well site to prevent surface waters from entering the well site area.
- j. Water application may be implemented if necessary to minimize the amount of fugitive dust.
- k. All surface disturbing activities would be supervised by a qualified, responsible company representative who is aware of the terms and conditions of the APD and specifications in the approved plans.

#### 10. Plan for Restoration of the Surface:

- a. A site specific reclamation plan would be submitted, if requested, within 90 days of location construction to the surface managing agency or the fee landowners.
- b. Site reclamation would be accomplished for portions of the well pad not required for the continued operation of the well on this pad within six months of completion, weather permitting.
- c. The operator would control noxious weeds along access road use authorizations and well site by spraying or mechanical removal, according to the Utah Noxious Weed Act and as set forth in the approved surface damage agreements.
- d. Rat and mouse holes would be filled and compacted from bottom to top immediately upon release of the drilling rig from location. Upon well completion, any hydrocarbons in the pit shall be removed in accordance with 43 CFR 3162.7-1. The reserve pit would be allowed to dry prior to the commencement of backfilling work. No attempts would be made to backfill the reserve pit until it is free of standing water. Once dry, the liner would be torn and perforated before backfilling.
- e. The reserve pit and that portion of the location not needed for production facilities/operations would be recontoured to the approximate natural contours. Areas not used for production purposes would be backfilled and blended into the surrounding terrain, reseeded and erosion control measures installed. Mulching, erosion control measures and fertilization may be required to achieve acceptable stabilization. Back slopes and fore slopes would be reduced as practical and scarified with the contour. The reserved topsoil would be evenly distributed over the slopes and scarified along the contour. Slopes would be seeded with the landowner specified seed mix.
- f. Topsoil salvaged from the drill site and stored for more than one year would be placed at the location indicated on the well site layout drawing and graded to a

Bill Barrett Corporation Surface Use Plan #14-11D-37 BTR Duchesne County, UT

depth optimum to maintain topsoil viability, seeded with the landowner prescribed seed mixture and covered with mulch for protection from wind and water erosion and to discourage the invasion of weeds.

# 11. <u>Surface and Mineral Ownership:</u>

- a. Surface ownership Ralph M. Giles Revocable Trust PO Box 405, Tabiona, UT 84072; 435-828-4161
- b. Mineral ownership Ute Indian Tribe 988 South 7500 East; Ft. Duchesne, Utah 84026; 435-725-4982.

#### 12. Other Information:

- a. Montgomery Archeological Consultants has conducted a Class III archeological survey. A copy of the report has been submitted under separate cover to the appropriate agencies by Montgomery as report 11-088 dated May 25, 2011.
- BBC would require that their personnel, contractors, and subcontractors to comply with Federal regulations intended to protect archeological and cultural resources.
- c. Project personnel and contractors would be educated on and subject to the following requirements:
  - No dogs or firearms within the Project Area.
  - No littering within the Project Area.
  - Smoking within the Project Area would only be allowed in off-operator
    active locations or in specifically designated smoking areas. All cigarette
    butts would be placed in appropriate containers and not thrown on the
    ground or out windows of vehicles; personnel and contractors would abide
    by all fire restriction orders.
  - Campfires or uncontained fires of any kind would be prohibited.
  - Portable generators used in the Project Area would have spark arrestors.

#### d. Disturbance estimates:

#### **Approximate Acreage Disturbances**

Well Pad		3.616	acres
*Access	4,155 feet		
*Pipeline	4,059 feet		
Powerline	4,155 feet	14.307	acres

Total 17.92 acres

<sup>\*</sup>Access and Pipeline disturbance is included within the Powerline

**Bill Barrett Corporation** Surface Use Plan #14-11D-37 BTR Duchesne County, UT

#### **OPERATOR CERTIFICATION**

#### Certification:

I hereby certify that I, or someone under my direction supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein would be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application and that bond coverage is provided under Bill Barrett Corporations federal nationwide bond. These statements are subject to the provisions of 18 U.S.C. 1001 for the filings of false statements.

24th day of June 2011 Venessa Langmacher Executed this

Name: Senior Permit Analyst Position Title:

1099 18th Street, Suite 2300, Denver, CO 80202 Address:

303-312-8172 Telephone:

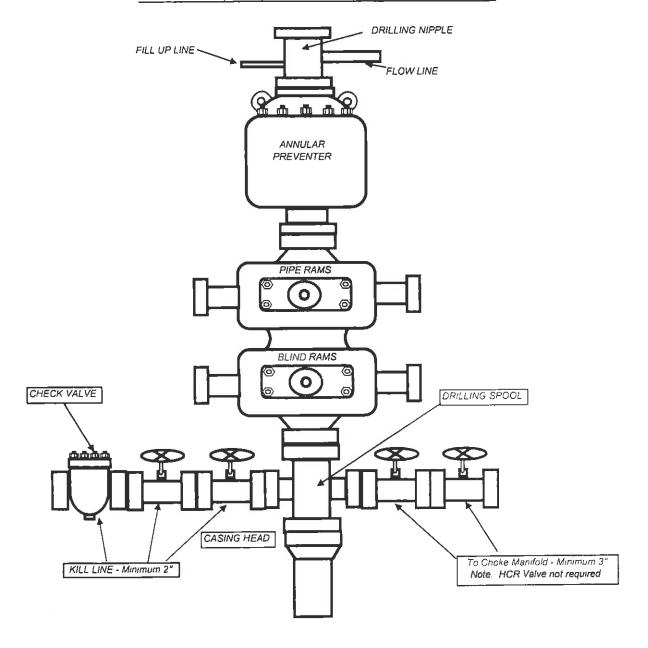
vlangmacher@billbarrettcorp.com E-mail: Field Representative Kary Eldredge / Bill Barrett Corporation 1820 W. Highway 40, Roosevelt, UT 84066 Address: 435-725-3515 (office); 435-724-6789 (mobile) Telephone:

E-mail: keldredge@billbarrettcorp.com

Venessa Langmacher, Senior Permit Analyst

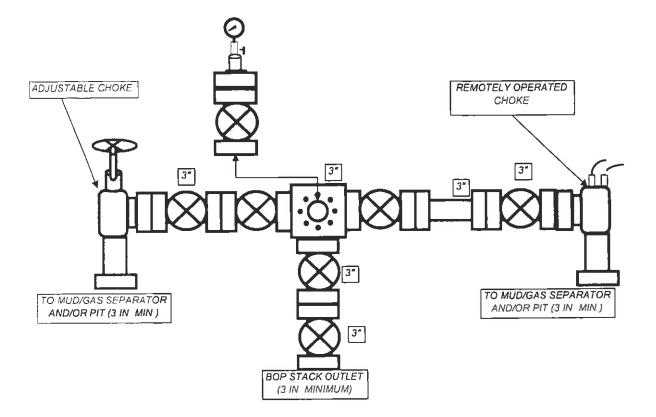
# **BILL BARRETT CORPORATION**

# TYPICAL 5,000 p.s.i. BLOWOUT PREVENTER



# **BILL BARRETT CORPORATION**

TYPICAL 5,000 p.s.i. CHOKE MANIFOLD





June 24, 2011

Ms. Diana Mason – Petroleum Technician State of Utah Division of Oil, Gas and Mining 1594 West North Temple, Suite 1210 P. O. Box 145801 Salt Lake City, Utah 84114-5801

Re: Directional Drilling R649-3-11

Blacktail Ridge Area #14-11D-37 BTR Well

Surface: 335' FSL & 1,359' FWL, SESW, 11-T3S-R7W, USM Bottom Hole: 810' FSL & 1,871' FWL, SESW, 11-T3S-R7W, USM

Duchesne County, Utah

Dear Ms. Mason,

Pursuant to the filing of Bill Barrett Corporation's ("BBC") Application for Permit to Drill the above referenced well, we hereby submit this letter in accordance with Oil & Gas Conservation Rules R649-2, R649-3, R649-10 and R649-11, pertaining to the Location and Siting of Wells.

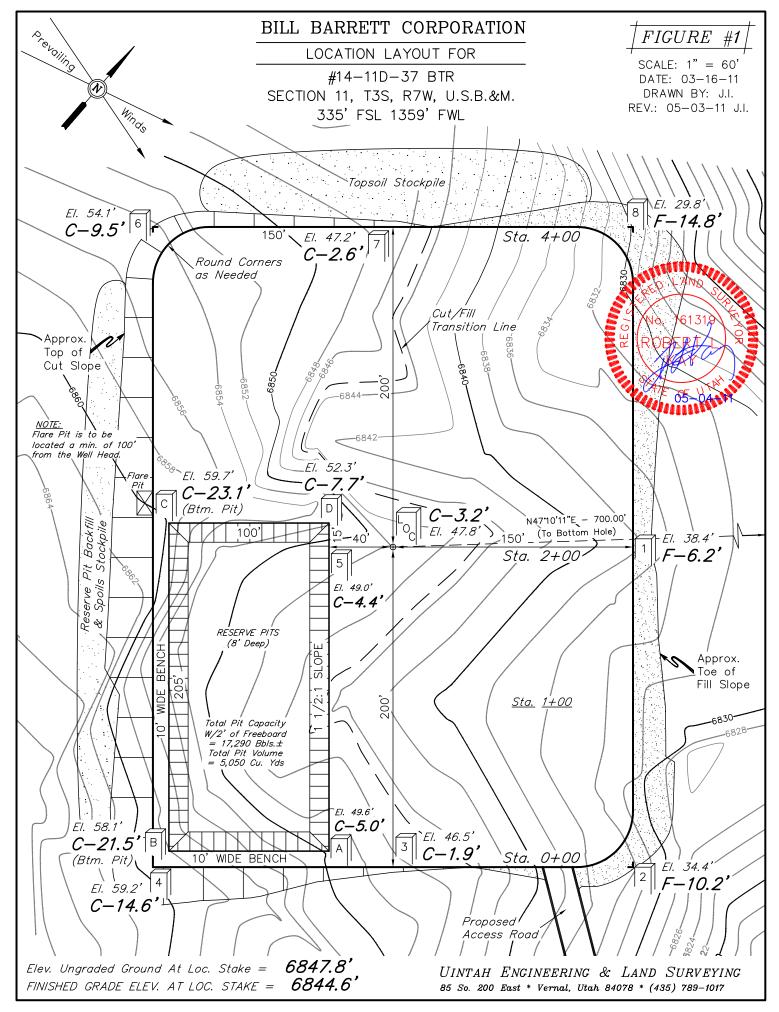
- The proposed location is within our Blacktail Ridge Area.
- BBC is permitting this well as a directional well in order to minimize surface disturbance. By locating the well at the surface location and directionally drilling from this location, BBC will be able to utilize the existing road and pipelines in the area.
- The well will be drilled under an Exploration and Development Agreement between the Ute Indian Tribe and Ute Distribution Corporation. Ute Energy, LLC owns a right to participate in this well.
- BBC certifies that it is the working interest owner of all lands within 460 feet of the proposed well location, and together with Ute Energy, LLC, we own 100% of the working interest in these lands.

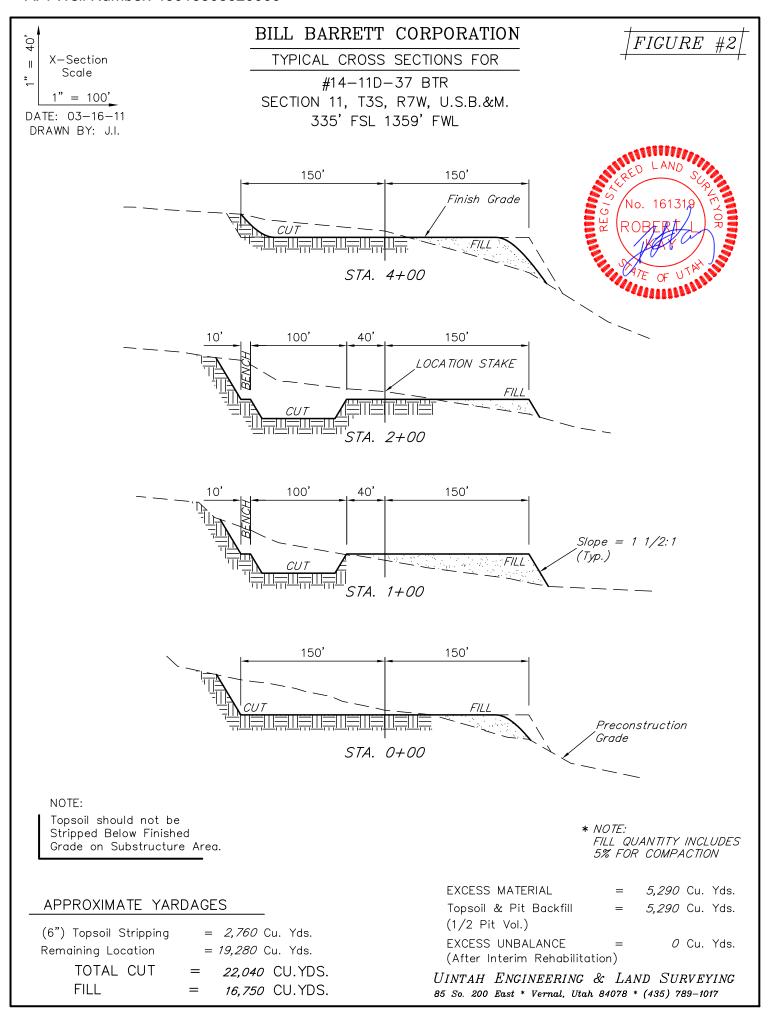
Based on the information provided, BBC requests that the permit be granted pursuant to R649-3-11. Should you have any questions or need further information, please contact me at 303-312-8544.

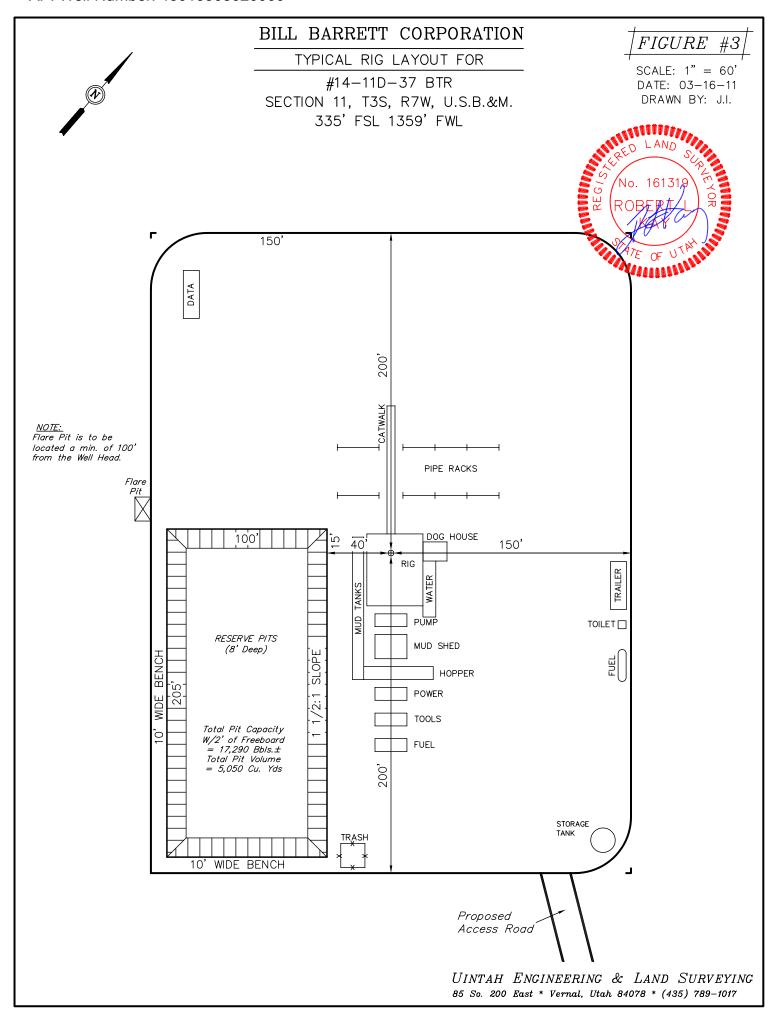
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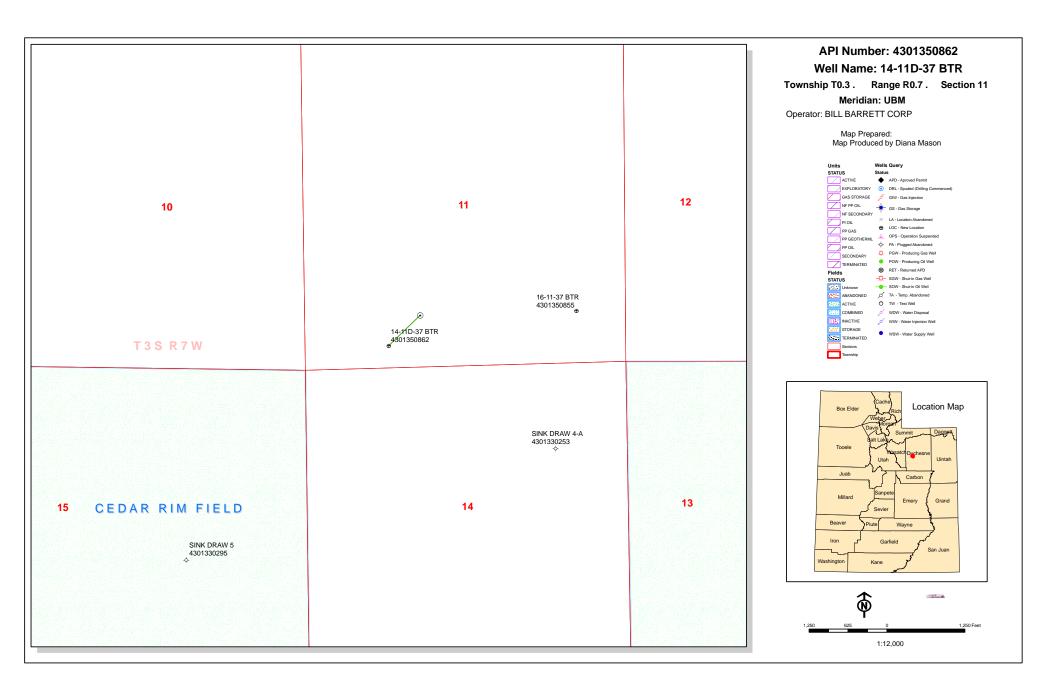
David Watts Landman

> 1099 18<sup>TH</sup> STREET SUITE 2300 DENVER, CO 80202 P 303.293.9100 F 303.291.0420









# **ON-SITE PREDRILL EVALUATION**

# Utah Division of Oil, Gas and Mining

**Operator** BILL BARRETT CORP

Well Name 14-11D-37 BTR

API Number 43013508620000 APD No 4108 Field/Unit UNDESIGNATED

**Location: 1/4,1/4** SESW **Sec** 11 **Tw** 3.0S **Rng** 7.0W 335 FSL 1359 FWL

GPS Coord (UTM) 530047 4452888 Surface Owner Ralph M. Giles Revocable Trust

### **Participants**

James Hereford (BLM), Kary Eldredge (Bill Barrett), Roger Knight (Bill Barrett), Don Hamilton (Star Point), Trevor Anderson (UELS), Joe Avia (EIS), Richard Powell (DOGM), Kelly Jo Jackson (Montgomery)

# Regional/Local Setting & Topography

This location sits on a north east facing slope poised approximately 1.5 miles south and west of Rabbit Gulch. Drainage from this location flows to a small draw directly to the north of the location which then flows to Rabbit Gulch. Rabbit Gulch is the dominate drainage wash and feature of this region and flows to Starvation Lake approximately 8 miles east. It is approximately 17 miles east to Duchesne, UT.

#### Surface Use Plan

**Current Surface Use** 

Wildlfe Habitat

Deer Winter Range

New Road Miles Well Pad Src Const Material Surface Formation

0.8 Width 290 Length 400 Onsite UNTA

**Ancillary Facilities** N

Waste Management Plan Adequate? Y

#### **Environmental Parameters**

Affected Floodplains and/or Wetlands N

#### Flora / Fauna

Deer, elk, coyote, rabbits and other small mammals, song birds, raptors Sage, prickly pear cactus, grasses, mahogany

# Soil Type and Characteristics

Sandy soil, exposed rock on surface

**Erosion Issues** N

**Sedimentation Issues** N

Site Stability Issues N

**Drainage Diverson Required?** Y

Minor drainages must be diverted

Berm Required? N

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**Erosion Sedimentation Control Required?** N

Paleo Survey Run? N Paleo Potental Observed? N Cultural Survey Run? Y Cultural Resources? Y

# **Reserve Pit**

Site-Specific Factors	Site Ra	nking	
Distance to Groundwater (feet)	>200	0	
Distance to Surface Water (feet)	>1000	0	
Dist. Nearest Municipal Well (ft)	>5280	0	
Distance to Other Wells (feet)	>1320	0	
Native Soil Type	High permeability	20	
Fluid Type	Fresh Water	5	
Drill Cuttings	Normal Rock	0	
<b>Annual Precipitation (inches)</b>	10 to 20	5	
<b>Affected Populations</b>			
<b>Presence Nearby Utility Conduits</b>	Not Present	0	
	Final Score	30	1 Sensitivity Level

# **Characteristics / Requirements**

The reserve pit will be place in cut in a stable location. The pit will be 100ft x 205ft x 8ft deep with a total capacity including freeboard of 17,290bbl. Kary Eldredge of BBC said they will use a 20 mil liner with a felt sub-liner.

Closed Loop Mud Required? N Liner Required? Y Liner Thickness 16 Pit Underlayment Required? Y

# **Other Observations / Comments**

Richard Powell 6/15/2011 **Evaluator Date / Time** 

7/11/2011 Page 2

# **Application for Permit to Drill Statement of Basis**

7/11/2011 Utah Division of Oil, Gas and Mining

Page 1

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
4108	43013508620000	LOCKED	OW	P	No
Operator	BILL BARRETT CORP		Surface Owner-APD	Ralph M. Giles R	Levocable Trust
Well Name	14-11D-37 BTR		Unit		
Field	UNDESIGNATED		Type of Work	DRILL	

**Location** SESW 11 3S 7W U 335 FSL 1359 FWL GPS Coord (UTM) 530051E 4452873N

# **Geologic Statement of Basis**

The mineral rights for the proposed well are owned by the Ute Tribe. The BLM will be the agency responsible for evaluating and approving the drilling, casing and cement programs.

Brad Hill 7/11/2011 **APD Evaluator Date / Time** 

#### **Surface Statement of Basis**

This onsite evaluation was scheduled by James Hereford of the BLM. According to Mr. Hereford, the land owner Ralph M. Giles was contacted but chose not to attend. Mr. Hereford related concerns which he did discuss with Mr. Giles. Mr. Giles requested that disturbance to the land be kept as minimal as possible. Also, there is a very old brush fence which Mr. Giles requested to be preserved. The access road to this particular well does not affect the brush fence but the earlier sections of road leading to wells which will be passed on the way to this well do cross or pass nearby the brush fence. During the onsite on Mr. Giles land, Kelly Jackson of Montgomery archeology flagged the brush fences to mark appropriate road rerouting.

Richard Powell 6/15/2011
Onsite Evaluator Date / Time

#### Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A synthetic liner with a minimum thickness of 16 mils with a felt subliner shall be properly installed and maintained in the reserve pit.
Surface	The well site shall be bermed to prevent fluids from leaving the pad.
Surface	Drainages adjacent to the proposed pad shall be diverted around the location.
Surface	The reserve pit shall be fenced upon completion of drilling operations.

# WORKSHEET APPLICATION FOR PERMIT TO DRILL

**APD RECEIVED:** 6/24/2011 API NO. ASSIGNED: 43013508620000 **WELL NAME: 14-11D-37 BTR PHONE NUMBER:** 303 312-8172 **OPERATOR:** BILL BARRETT CORP (N2165) **CONTACT:** Venessa Langmacher

PROPOSED LOCATION: SESW 11 030S 070W **Permit Tech Review:** 

> SURFACE: 0335 FSL 1359 FWL **Engineering Review:**

> **BOTTOM:** 0810 FSL 1871 FWL Geology Review:

**COUNTY: DUCHESNE** 

**LATITUDE:** 40.22764 **LONGITUDE:** -110.64678 UTM SURF EASTINGS: 530051.00 NORTHINGS: 4452873.00

FIELD NAME: UNDESIGNATED **LEASE TYPE:** 2 - Indian

**LEASE NUMBER: 20G0005608** PROPOSED PRODUCING FORMATION(S): GREEN RIVER-WASATCH

**SURFACE OWNER: 4 - Fee COALBED METHANE: NO** 

# **RECEIVED AND/OR REVIEWED: LOCATION AND SITING:** PLAT R649-2-3. Bond: INDIAN - LPM8874725 Unit: **Potash** R649-3-2. General Oil Shale 190-5 R649-3-3. Exception Oil Shale 190-3 Oil Shale 190-13 **Drilling Unit** Board Cause No: Cause 139-85 Water Permit: Duchesne City Culinary Water Dock Effective Date: 3/11/2010 **RDCC Review:** Siting: 4 Prod LGGRV-WSTC Wells in Drilling Units **✓** Fee Surface Agreement **Intent to Commingle** ■ R649-3-11. Directional Drill **Commingling Approved**

**Comments:** Presite Completed

Stipulations:

4 - Federal Approval - dmason 5 - Statement of Basis - bhill 15 - Directional - dmason

API Well No: 43013508620000



# State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

# **Permit To Drill**

\*\*\*\*\*

Well Name: 14-11D-37 BTR
API Well Number: 43013508620000
Lease Number: 2OG0005608
Surface Owner: FEE (PRIVATE)

**Approval Date: 7/11/2011** 

#### **Issued to:**

BILL BARRETT CORP, 1099 18th Street Ste 2300, Denver, CO 80202

#### **Authority:**

Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 139-85. The expected producing formation or pool is the GREEN RIVER-WASATCH Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

#### **Duration:**

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

#### General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

#### **Conditions of Approval:**

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

# **Notification Requirements:**

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

• Within 24 hours following the spudding of the well – contact Carol Daniels at 801-538-5284 (please leave a voicemail message if not available)
OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at http://oilgas.ogm.utah.gov

API Well No: 43013508620000

# **Reporting Requirements:**

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) due within 5 days of spudding the well
- Monthly Status Report (Form 9) due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) due prior to implementation
- Written Notice of Emergency Changes (Form 9) due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) due prior to implementation
- Report of Water Encountered (Form 7) due within 30 days after completion
- Well Completion Report (Form 8) due within 30 days after completion or plugging

**Approved By:** 

For John Rogers Associate Director, Oil & Gas

STATE OF UTAH  DEPARTMENT OF NATURAL RESOURCE  DIVISION OF OIL, GAS AND MINING								AMEND	FOR ED REPOR			
					DIVISION OF	OIL, GAS AND M	INING					
APPLICATION FOR PERMIT TO DRILL						1. WELL NAME and	<b>NUMBER</b> 14-11D-3	7 BTR				
2. TYPE OF WORK  DRILL NEW WELL ( REENTER P&A WELL ) DEEPEN WELL )						3. FIELD OR WILDO	AT UNDESIGI	NATED				
4. TYPE OF WELL Oil Well Coalbed Methane Well: NO							5. UNIT or COMMU	ITAZITI	ON AGRE	EMENT	NAME	
6. NAME	OF OPERAT			L BARRE				7. OPERATOR PHON	<b>NE</b> 303 312	-8164		
8. ADDR	RESS OF OPER		)99 18th Street	Ste 230	0, Denver, CO, 80202			9. OPERATOR E-MA dspend	<b>IL</b> er@billbar	rettcorp.c	om	
	ERAL LEASE AL, INDIAN,				11. MINERAL OWNER	RSHIP AN 📵 STATE 🧐	) FEE	12. SURFACE OWNE	ERSHIP DIAN (	STATE		EE (III)
13. NAM	IE OF SURFA	CE OWNER (if be			vocable Trust			14. SURFACE OWN	R PHONE 435-828			~~
15. ADD	RESS OF SUF	RFACE OWNER (	if box 12 = 'f					16. SURFACE OWNE	R E-MAI	L (if box :	L2 = 'fe	e')
		E OR TRIBE NA			18. INTEND TO COM MULTIPLE FORMATION		ON FROM	19. SLANT				
(if box :	12 = 'INDIAN					ommingling Application	on) NO 📵	VERTICAL DIR	ECTIONAL	. 📵 н	ORIZON	TAL 🔵
20. LO	CATION OF W	/ELL		FOC	OTAGES	QTR-QTR	SECTION	TOWNSHIP	RAI	NGE	MER	IDIAN
LOCAT	ION AT SURF	ACE		335 FSL	1359 FWL	SESW	11	3.0 S	7.0	W		U
Top of	Uppermost P	roducing Zone		812 FSL	1871 FWL	SESW	11	3.0 S	7.0	W		U
At Tota	al Depth			810 FSL	1871 FWL	SESW	11	3.0 S	7.0	W		U
21. COU	INTY	DUCHESNE			22. DISTANCE TO NE	AREST LEASE LINE	(Feet)	23. NUMBER OF AC	<b>RES IN D</b> 640		UNIT	
					25. DISTANCE TO NE (Applied For Drilling		ME POOL	<b>26. PROPOSED DEP</b> MD:		ΓVD: 1193	6	
27. ELE	VATION - GR	OUND LEVEL			28. BOND NUMBER			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE				
		6848				LPM8874725			e City Culi			ICABLE
					Hole, Casing, a	and Cement Info	rmation					
String		Casing Size	Length	Weigh				Cement		Sacks		Weight
Cond	26	9.625	0 - 80 0 - 4000	65.0 36.0	Unknown	8.8	Halliburte	Unknown	nouun	620	0.0	0.0
Surf	12.25	9.625	0 - 4000	36.0	J-55 ST&C	8.8		on Light , Type Unk Premium , Type Ur		210	3.16 1.36	11.0
Prod	8.75	5.5	0 - 11999	17.0	P-110 LT&C	9.7	Trainbur torr	Unknown	IKITOWIT	770	2.31	11.0
- 1 4 4								Unknown		1030	1.42	13.5
					AT	TACHMENTS						
	VERIFY	THE FOLLOW	ING ARE A	ГТАСНЕ	D IN ACCORDANC	CE WITH THE UT	AH OIL AND (	GAS CONSERVATI	ON GEN	ERAL RI	JLES	
<b>I</b> ✓ V	VELL PLAT O	R MAP PREPARE	D BY LICENS	ED SURV	YEYOR OR ENGINEER	СОМЕ	PLETE DRILLING	PLAN				
AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)				ACE) FORM	5. IF OPERATO	R IS OTHER THAN T	HE LEASE	OWNER				
DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY TOPOGRAPHICAL MAP												
DRILLE		SURVEY PLAN (	(IF DIRECTIO	NALLY C	PR HORIZONTALLY	торос	GRAPHICAL MA	P				
			(IF DIRECTIO		R HORIZONTALLY  Senior Permit Analyst		PHONE 303					
	<b>D)</b> Venessa Langr		(IF DIRECTIO	TITLE			PHONE 303		rp.com			
NAME SIGNA	<b>D)</b> Venessa Langr	nacher	(IF DIRECTIO	TITLE	Senior Permit Analyst 06/24/2011		PHONE 303	312-8172	rp.com			

# **DRILLING PLAN**

#### **BILL BARRETT CORPORATION**

# 14-11D-37 BTR Well Pad

SE SW, 335' FSL and 1359' FWL, Section 11, T3S, R7W, USB&M (surface hole) SE SW, 810' FSL and 1871' FWL, Section 11, T3S, R7W, USB&M (bottom hole) Duchesne County, Utah

# 1 - 2. <u>Estimated Tops of Geological Markers and Formations Expected to Contain Water, Oil and</u> Gas and Other Minerals

<b>Formation</b>	Depth – MD	Depth – TVD
Lower Green River*	7,374'	7,321'
Douglas Creek	8,139'	8,076'
Black Shale	8,689'	8,626'
Castle Peak	8,954'	8,891'
Uteland Butte	9,349'	9,286'
Wasatch*	9,789'	9,726'
TD	11,999'	11,936'

<sup>\*</sup>PROSPECTIVE PAY

The Wasatch and the Lower Green River are primary objectives for oil/gas.

#### 3. BOP and Pressure Containment Data

Depth Intervals	BOP Equipment
0 - 4,000	No pressure control required
4,000' – TD	11" 5000# Ram Type BOP
	11" 5000# Annular BOP
D '11' 1 .	1 . 1 1 11 11 11

- Drilling spool to accommodate choke and kill lines;
- Ancillary equipment and choke manifold rated at 5,000 psi. All BOP and BOPE tests will be in accordance with the requirements of onshore Order No. 2;
- The BLM and the State of Utah Division of Oil, Gas and Mining will be notified 24 hours in advance of all BOP pressure tests.
- BOP hand wheels may be underneath the sub-structure of the rig if the drilling rig used is set up To operate most efficiently in this manner.

#### 4. <u>Casing Program</u>

<b>Hole</b>	SETTING	G DEPTH	Casing	Casing	Casing			
<u>Size</u>	(FROM)	<u>(TO)</u>	<u>Size</u>	Weight	<u>Grade</u>	<b>Thread</b>	Condition	
26"	Surface	80'	16"	65#				
12 1/4"	Surface	4,000'	9 5/8"	36#	J or K 55	BT&C	New	
8 ¾"	Surface	TD	5 ½"	17#	P-110	LT&C	New	
NOTE:	NOTE: In addition, 8 3/4" hole size may change to 7 7/8" at the point the bit is changed out.							

Bill Barrett Corporation Drilling Program #14-11D-37 BTR Duchesne County, Utah

# 5. <u>Cementing Program</u>

Casing	Cementing
16" Conductor Casing	Grout
9 5/8" Surface Casing	Lead with approximately 620 sx Halliburton Light Premium with additives mixed at 11.0 ppg (yield = 3.16 ft <sup>3</sup> /sx) circulated to surface with 75% excess. Top of lead estimated at surface.
	<i>Tail</i> with approximately 210 sx Halliburton Premium cement with additives mixed at 14.8 ppg (yield = $1.36$ ft <sup>3</sup> /sx), calculated hole volume with 75% excess. Top of tail estimated at 3,500'.
5 1/2" Production Casing	Lead with approximately 770 sx Tuned Light cement with additives, mixed at 11.0 ppg (yield = 2.31 ft <sup>3</sup> /sx,). Top of lead estimated at 3,500'.
	Tail with approximately 1030 sx Halliburton Econocem cement with additives mixed at 13.5 ppg (yield = $1.42$ ft <sup>3</sup> /sx). Top of tail estimated at 8,189'.

# 6. Mud Program

<u>Interval</u>	<u>Weight</u>	Viscosity	Fluid Loss (API filtrate)	<u>Remarks</u>
0' - 80'	8.3 - 8.8	26 - 36	NC	Freshwater Spud Mud Fluid
				System
80' - 4,000'	8.3 - 8.8	26 - 36	NC	Freshwater Spud Mud Fluid
				System
4,000' – TD	8.6 - 9.7	42-52	20 cc or less	DAP Polymer Fluid System

Note: Sufficient mud materials to maintain mud properties, control lost circulation and to contain "kicks" will be available at wellsite. BBC may require minor amounts of diesel to be added to its fluid system in order to reduce torque and drag.

# 7. <u>Testing, Logging and Core Programs</u>

Cores	None anticipated
Testing	None anticipated; drill stem tests may be run on shows of interest;
Sampling	30' to 50' samples; surface casing to TD. Preserve samples all show intervals;
Surveys	MWD as needed to land wellbore;
Logging	DIL-GR-SP, FDC-CNL-GR-CALIPER-Pe-Microlog, Sonic-GR (all TD to surface).
	FMI & Sonic Scanner to be run at geologist's discretion.

Bill Barrett Corporation Drilling Program #14-11D-37 BTR Duchesne County, Utah

### 8. Anticipated Abnormal Pressures or Temperatures

No abnormal pressures or temperatures or other hazards are anticipated.

Maximum anticipated bottom hole pressure equals approximately 6021 psi\* and maximum anticipated surface pressure equals approximately 3395 psi\*\* (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

\*Max Mud Wt x 0.052 x TD = A (bottom hole pressure)

### 9. Auxiliary Equipment

- a) Upper kelly cock; lower Kelly cock will be installed while drilling
- b) Inside BOP or stab-in valve (available on rig floor)
- c) Safety valve(s) and subs to fit all string connections in use
- d) Mud monitoring will be visually observed

#### 10. Location and Type of Water Supply

Water for the drilling and completion will be trucked from the Duchesne City Culinary Water Dock located in Sec. 1, T4S, R5W.

# 11. <u>Drilling Schedule</u>

Location Construction: January 2012 Spud: January 2012

Duration: 15 days drilling time

45 days completion time

<sup>\*\*</sup>Maximum surface pressure = A - (0.22 x TD)

### PRESSURE CONTROL EQUIPMENT – Schematic Attached

# A. Type: Eleven (11) Inch Double Gate Hydraulic BOP with Eleven (11) Inch Annular Preventer. The blow out preventer will be equipped as follows:

- 1. One (1) blind ram (above).
- 2. One (1) pipe ram (below).
- 3. Drilling spool with two (2) side outlets (choke side 3-inch minimum, kill side 2-inch minimum).
- 4. 3-inch diameter choke line.
- 5. Two (2) choke line valves (3-inch minimum).
- 6. Kill line (2-inch minimum).
- 7. Two (2) chokes with one (1) remotely controlled from the rig floor.
- 8. Two (2) kill line valves, and a check valve (2-inch minimum).
- 9. Upper and lower kelly cock valves with handles available.
- 10. Safety valve(s) & subs to fit all drill string connections in use.
- 11. Inside BOP or float sub available.
- 12. Pressure gauge on choke manifold.
- 13. Fill-up line above the uppermost preventer.

# **B. Pressure Rating:** 5,000 psi

# C. Testing Procedure:

#### Annular Preventer

At a minimum, the Annular Preventer will be pressure tested to 50% of the rated working pressure for a period of ten (10) minutes or until provisions of the test are met, whichever is longer.

At a minimum the above pressure test will be performed:

- 1. When the annular preventer is initially installed;
- 2. Whenever any seal subject to test pressure is broken;
- 3. Following related repairs; and
- 4. At thirty (30) day intervals.

In addition, the Annular Preventer will be functionally operated at least weekly.

### **Blow-Out Preventer**

At a minimum, the BOP, choke manifold, and related equipment will be pressure tested to the approved working pressure of the BOP stack (if isolated from the surface casing by a test plug) or to 70% of the internal yieldstrength of the surface casing (if the BOP is not isolated from the casing by a test plug). Pressure will be

maintained for a period of at least ten (10) minutes or until the requirmentsof the test are met, whichever is longer.

At a minimum, the above pressure test will be performed:

- 1. When the BOP is initially installed;
- 2. Whenever any seal subject to test pressure is broken;
- 3. Following related repairs; and
- 4. At thirty (30) day intervals.

In addition the pipe and blind rams will be activated each trip, but not more than once each day. All BOP drills and tests will be recorded in the IADC driller's log.

# D. Choke Manifold Equipment:

All choke lines will be straight lines unless turns use tee blocks or are targeted with running tees, and will be anchored to prevent whip and vibration.

#### E. Accumulator:

The accumulator will have sufficient capacity to open the hydraulically-controlled choke line valve (if so equipped), close all rams plus the annular preventer, and retain a minimum of 200 psi above precharge on the closing manifold without the use of closing unit pumps. The fluid reservoir capacity will be double the usable fluid volume of the accumulator system capacity and the fluid level of the reservoir will be maintained at the manufacturer's recommendations.

The BOP system will have two (2) independent power sources to close the preventers. Nitrogen bottles (3 minimum) will be one (1) of these independent power sources and will maintain a charge equal to the manufacturer's specifications.

The accumulator precharge pressure test will be conducted prior to connecting the closing unit to the BOP stack and at least once every six (6) months thereafter. The accumulator pressure will be corrected if the measured precharge pressure is found to be above or below the maximum or minimum limits specified in the *Onshore Oil & Gas Order Number 2*.

A manual locking device (i.e. hand wheels) or automatic locking device will be installed on all systems of 2M or greater. A valve will be installed in the closing line as close as possible to the annular preventer to act as a locking device. This valve will be maintained in the open position and will be closed only when the power source for the accumulator is inoperative.

Remote controls shall be readily accessible to the driller. Remote controls for all 3M or greater systems will be capable of closing all preventers. Remote controls for 5M or greater systems will be capable of both opening and closing all preventers. Master controls will be at the accumulator and will be capable of opening and closing all preventers and the choke line valve (if so equipped).

#### F. Miscellaneous Information:

The Blow-Out Preventer and related pressure control equipment will be installed, tested and maintained in compliance with the specifications in and requirements of *Onshore Oil & Gas Order Number 2*. The hydraulic BOP closing unit will be located at least twenty-five (25) feet from the well head but readily accessible to the driller. Exact locations and configurations of the hydraulic BOP closing unit will depend upon the particular rig contracted to drill this hole.

A flare line will be installed after the choke manifold, extending 125 feet (minimum) from the center of the drill hole to a separate flare pit.



# LAKE CANYON & BLACK TAIL RIDGE CEMENT VOLUMES

Well Name: <u>14-11D-37 BTR</u>

#### Surface Hole Data:

4,000'
0'
12.250"
9.625"

#### Calculated Data:

Lead Volume:	1918.3	ft³
Lead Fill:	3,500'	
Tail Volume:	274.0	ft°
Tail Fill:	500'	

#### **Cement Data:**

Lead Yield:	3.16	ft³/sk
% Excess:	75%	
Top of Lead:	0'	

Tail Yield:	1.36	ft°/sk
% Excess:	75%	
Top of Tail:	3,500'	

#### Calculated # of Sacks:

# SK's Lead:	620
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#### **Production Hole Data:**

Total Depth:	11,999'
Top of Cement:	3,500'
Top of Tail:	8,189'
OD of Hole:	8.750"
OD of Casing:	5.500"

#### **Calculated Data:**

Lead Volume:	1776.6	ft³
Lead Fill:	4,689'	
Tail Volume:	1443.7	ft³
Tail Fill:	3,810'	

# Cement Data:

Lead Yield:	2.31	ft³/sk
Tail Yield:	1.42	ft <sup>3</sup> /sk
% Excess:	50%	

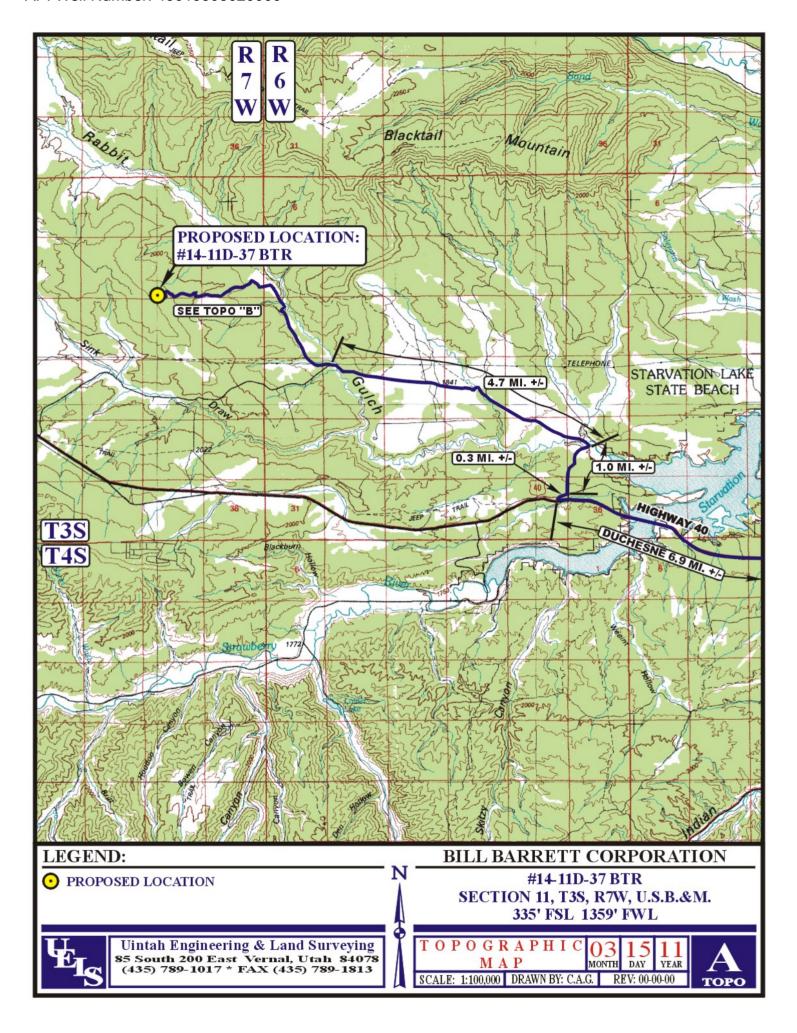
# Calculated # of Sacks:

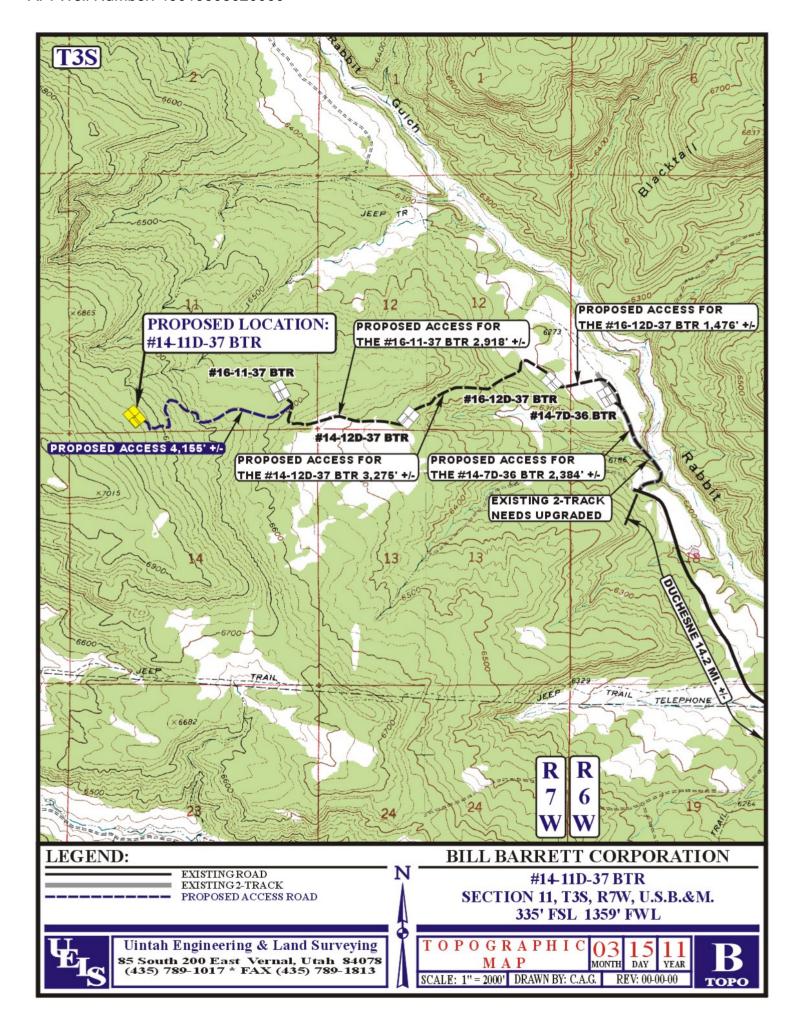
# SK's Lead:	770
# SK's Tail:	1030

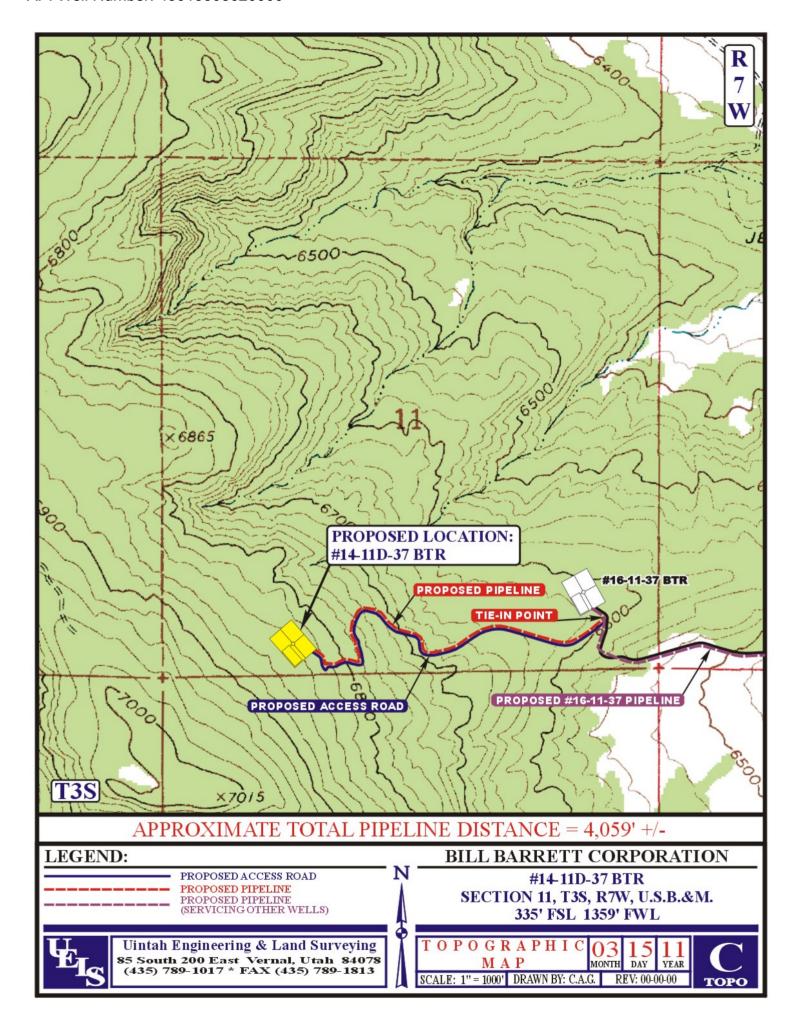
# 14-11D-37 BTR Proposed Cementing Program

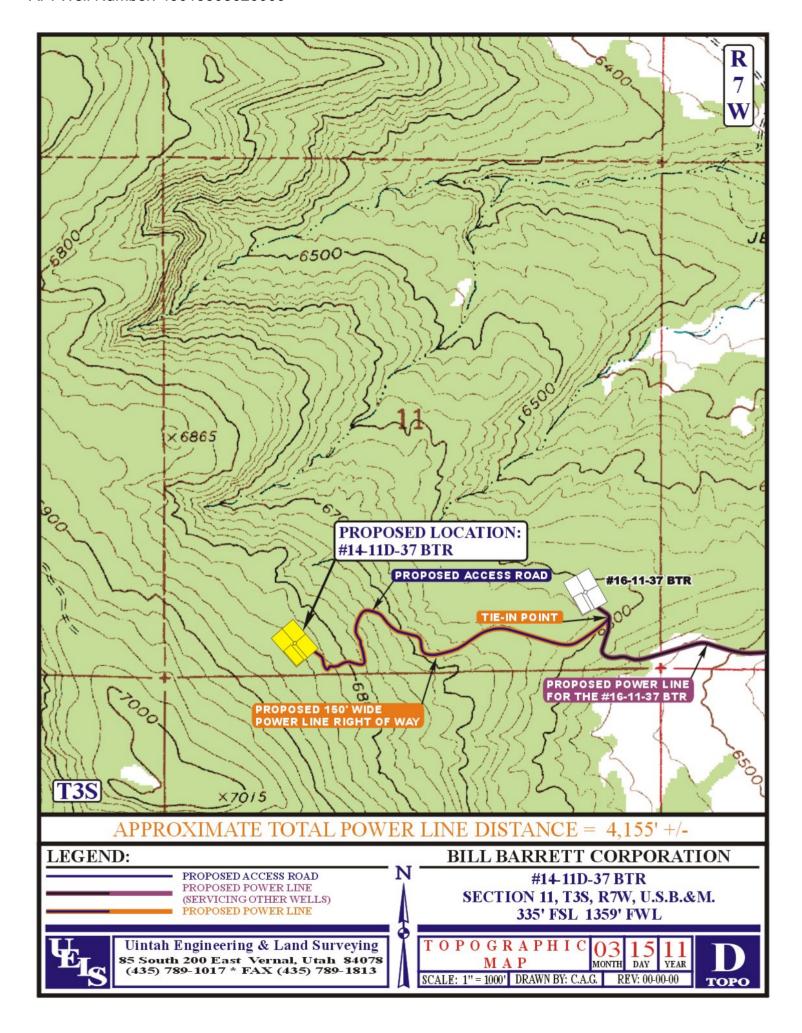
Job Recommendation Surface Cas			face Casing
Lead Cement - (3500' - 0')			
Halliburton Light Premium	Fluid Weight:	11.0	lbm/gal
5.0 lbm/sk Silicalite Compacted	Slurry Yield:	3.16	ft <sup>3</sup> /sk
0.25 lbm/sk Kwik Seal	Total Mixing Fluid:	19.48	Gal/sk
0.125 lbm/sk Poly-E-Flake	Top of Fluid:	0'	
2.0% Bentonite	Calculated Fill:	3,500'	
	Volume:	341.63	bbl
	Proposed Sacks:	620	sks
Tail Cement - (TD - 3500')			
Premium Cement	Fluid Weight:	14.8	lbm/gal
2.0% Calcium Chloride	Slurry Yield:	1.36	ft <sup>3</sup> /sk
	Total Mixing Fluid:	6.37	Gal/sk
	Top of Fluid:	3,500'	
	Calculated Fill:	500'	
	Volume:	48.80	bbl
	Proposed Sacks:	210	sks

Job Recommendation		Production Casing	
Lead Cement - (8189' - 3500')			
Tuned Light <sup>™</sup> System	Fluid Weight:	11.0	lbm/gal
	Slurry Yield:	2.31	ft <sup>3</sup> /sk
	Total Mixing Fluid:		
	Top of Fluid:	3,500'	
	Calculated Fill:	4,689'	
	Volume:	316.41	bbl
	Proposed Sacks:	770	sks
Tail Cement - (11999' - 8189')			
Econocem <sup>TM</sup> System	Fluid Weight:	13.5	lbm/gal
0.125 lbm/sk Poly-E-Flake	Slurry Yield:	1.42	ft <sup>3</sup> /sk
1.0 lbm/sk Granulite TR 1/4	Total Mixing Fluid:		Gal/sk
	Top of Fluid:	8,189'	
	Calculated Fill:	3,810'	
	Volume:	257.12	bbl
	Proposed Sacks:	1030	sks







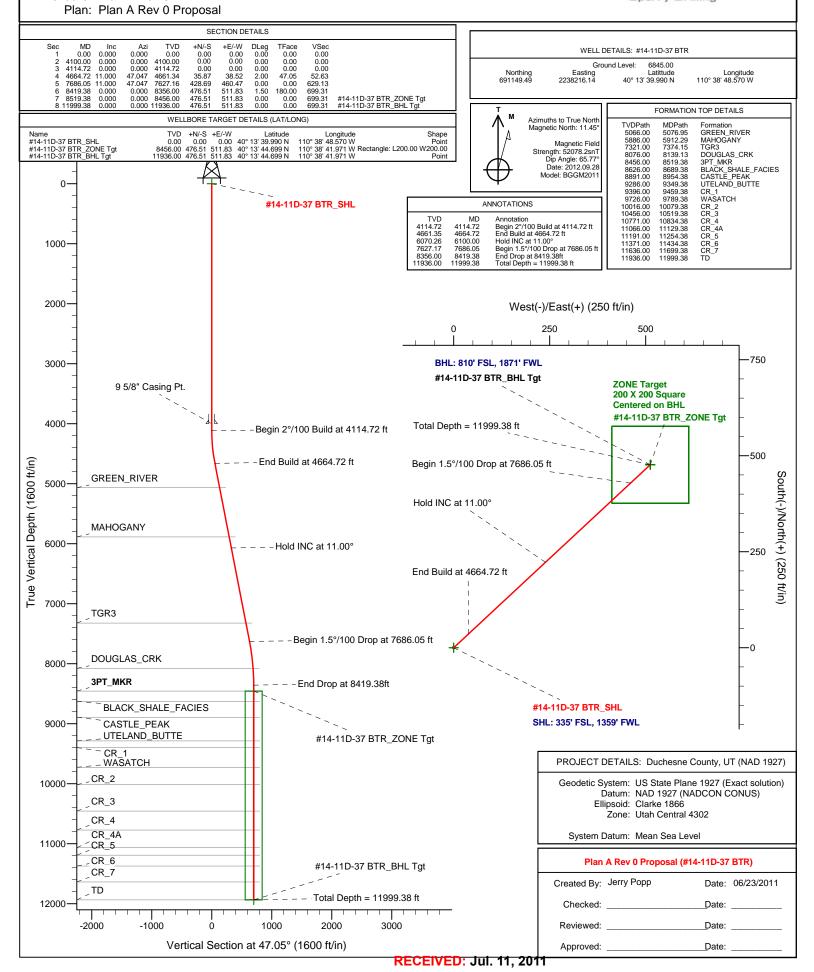


Project: Duchesne County, UT (NAD 1927)

Site: Sec. 11-T3S-R7W Well: #14-11D-37 BTR Wellbore: Plan A Rev 0

# Bill Barrett Corp





# Plan Report for #14-11D-37 BTR - Plan A Rev 0 Proposal

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Toolface Azimuth (°)
0.00	0.000	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.000	0.000	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.000	0.000	200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.000	0.000	300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.000	0.000	400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.000	0.000	500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.000	0.000	600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.000	0.000	700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.000	0.000	800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.000	0.000	900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.000	0.000		0.00		0.00		0.00		0.00
1,000.00 1,100.00	0.000	0.000	1,000.00 1,100.00	0.00	0.00 0.00	0.00	0.00 0.00	0.00	0.00 0.00	0.00
1,200.00	0.000	0.000	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.000	0.000	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.000	0.000	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
•			·							
1,500.00 1,600.00	0.000 0.000	0.000 0.000	1,500.00 1.600.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
1,700.00	0.000	0.000	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.000	0.000	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.000	0.000	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
•			·							
2,000.00 2.100.00	0.000	0.000	2,000.00 2.100.00	0.00	0.00	0.00	0.00	0.00	0.00 0.00	0.00 0.00
2,100.00	0.000 0.000	0.000 0.000	2,100.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00	0.00
2,200.00	0.000	0.000	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.000	0.000	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
•			·							
2,500.00	0.000	0.000	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00 2,700.00	0.000 0.000	0.000 0.000	2,600.00 2,700.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
2,800.00	0.000	0.000	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.000	0.000	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
•			·							
3,000.00	0.000	0.000	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.000	0.000 0.000	3,100.00 3,200.00	0.00	0.00 0.00	0.00 0.00	0.00	0.00	0.00 0.00	0.00 0.00
3,200.00 3,300.00	0.000 0.000	0.000	3,200.00	0.00 0.00	0.00	0.00	0.00 0.00	0.00 0.00	0.00	0.00
3,400.00	0.000	0.000	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
•			·							
3,500.00	0.000	0.000	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.000 0.000	0.000 0.000	3,600.00	0.00	0.00 0.00	0.00	0.00	0.00	0.00 0.00	0.00 0.00
3,700.00 3,800.00	0.000	0.000	3,700.00 3,800.00	0.00 0.00	0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00	0.00
3,900.00	0.000	0.000	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
•			,							
4,000.00	0.000	0.000	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9 5/8" Cas		0.000	4.400.00	0.00	0.00	0.00	2.02	0.00	0.00	0.00
4,100.00 4.114.72	0.000	0.000	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.000 <b>00 Build at 41</b>	0.000 <b>14.72</b> ft	4,114.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	1.706	47.047	4,199.99	0.86	0.93	1.27	2.00	2.00	0.00	47.05
4,300.00	3.706	47.047	4,299.87	4.08	4.38	5.99	2.00	2.00	0.00	0.00
4,400.00	5.706	47.047	4,399.53	9.67	10.39	14.19	2.00	2.00	0.00	0.00
4,500.00	7.706	47.047	4,498.84	17.63	18.93	25.87	2.00	2.00	0.00	0.00
4,600.00	9.706	47.047	4,597.68	27.94	30.01	41.00	2.00	2.00	0.00	0.00
4,664.72	11.000	47.047	4,661.35	35.87	38.52	52.63	2.00	2.00	0.00	0.00
	at 4664.72 ft									
4,700.00	11.000	47.047	4,695.98	40.45	43.45	59.37	0.00	0.00	0.00	0.00
4,800.00	11.000	47.047	4,794.14	53.45	57.42	78.45	0.00	0.00	0.00	0.00
4,900.00	11.000	47.047	4,892.30	66.46	71.38	97.53	0.00	0.00	0.00	0.00
5,000.00	11.000	47.047	4,990.47	79.46	85.35	116.61	0.00	0.00	0.00	0.00
5,076.95	11.000	47.047	5,066.00	89.46	96.09	131.29	0.00	0.00	0.00	0.00
GREEN_R	IVER									

# Plan Report for #14-11D-37 BTR - Plan A Rev 0 Proposal

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Toolface Azimuth (°)
5,100.00	11.000	47.047	5,088.63	92.46	99.31	135.69	0.00	0.00	0.00	0.00
5,200.00 5,300.00 5,400.00 5,500.00 5,600.00	11.000 11.000 11.000 11.000 11.000	47.047 47.047 47.047 47.047 47.047	5,186.79 5,284.96 5,383.12 5,481.28 5,579.44	105.46 118.46 131.46 144.47 157.47	113.28 127.24 141.21 155.18 169.14	154.77 173.85 192.93 212.01 231.09	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
5,700.00 5,800.00 5,900.00 5,912.29	11.000 11.000 11.000 11.000	47.047 47.047 47.047 47.047	5,677.61 5,775.77 5,873.93 5,886.00	170.47 183.47 196.47 198.07	183.11 197.07 211.04 212.75	250.18 269.26 288.34 290.68	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
6,000.00	11.000	47.047	5,972.09	209.48	225.00	307.42	0.00	0.00	0.00	0.00
6,100.00	11.000	47.047	6,070.26	222.48	238.97	326.50	0.00	0.00	0.00	0.00
Hold INC a										
6,200.00 6,300.00 6,400.00 6,500.00	11.000 11.000 11.000 11.000	47.047 47.047 47.047 47.047	6,168.42 6,266.58 6,364.75 6,462.91	235.48 248.48 261.48 274.48	252.93 266.90 280.86 294.83	345.58 364.66 383.74 402.82	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
6,600.00 6,700.00 6,800.00 6,900.00 7,000.00	11.000 11.000 11.000 11.000 11.000	47.047 47.047 47.047 47.047 47.047	6,561.07 6,659.23 6,757.40 6,855.56 6,953.72	287.49 300.49 313.49 326.49 339.49	308.80 322.76 336.73 350.69 364.66	421.90 440.98 460.07 479.15 498.23	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
7,100.00 7,200.00 7,300.00 7,374.15 <b>TGR3</b>	11.000 11.000 11.000 11.000	47.047 47.047 47.047 47.047	7,051.88 7,150.05 7,248.21 7,321.00	352.49 365.50 378.50 388.14	378.62 392.59 406.55 416.91	517.31 536.39 555.47 569.62	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
7,400.00	11.000	47.047	7,346.37	391.50	420.52	574.55	0.00	0.00	0.00	0.00
7,500.00 7,600.00 7,686.05	11.000 11.000 11.000	47.047 47.047 47.047	7,444.54 7,542.70 7,627.17	404.50 417.50 428.69	434.49 448.45 460.47	593.63 612.71 629.13	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
_	/100 Drop at 7									
7,700.00 7,800.00	10.791 9.291	47.047 47.047	7,640.87 7,739.33	430.49 442.37	462.40 475.16	631.77 649.20	1.50 1.50	-1.50 -1.50	0.00 0.00	180.00 180.00
7,900.00 8,000.00 8,100.00 8,139.13	7.791 6.291 4.791 4.204	47.047 47.047 47.047 47.047	7,838.22 7,937.46 8,036.99 8,076.00	452.49 460.84 467.42 469.51	486.03 495.00 502.07 504.31	664.05 676.31 685.97 689.03	1.50 1.50 1.50 1.50	-1.50 -1.50 -1.50 -1.50	0.00 0.00 0.00 0.00	180.00 180.00 180.00 180.00
8,200.00	3.291	47.047	8,136.74	472.22	507.22	693.01	1.50	-1.50	0.00	-180.00
8,300.00 8,400.00 8,419.38	1.791 0.291 0.000 at 8419.38ft	47.047 47.047 0.000	8,236.64 8,336.62 8,356.00	475.24 476.48 476.51	510.47 511.80 511.83	697.44 699.26 699.31	1.50 1.50 1.50	-1.50 -1.50 -1.50	0.00 0.00 0.00	180.00 180.00 -180.00
8,500.00 8,519.38	0.000 0.000 - <b>#14-11D-37</b>	0.000 0.000 BTR_ZONE T	8,436.62 8,456.00	476.51 476.51	511.83 511.83	699.31 699.31	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
8,600.00 8,689.38 BLACK_S	0.000 0.000 HALE_FACIES	0.000 0.000	8,536.62 8,626.00	476.51 476.51	511.83 511.83	699.31 699.31	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
8,700.00 8,800.00 8,900.00	0.000 0.000 0.000	0.000 0.000 0.000	8,636.62 8,736.62 8,836.62	476.51 476.51 476.51	511.83 511.83 511.83	699.31 699.31 699.31	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
8,954.38 <b>CASTLE_F</b>	0.000 <b>PEAK</b>	0.000	8,891.00	476.51	511.83	699.31	0.00	0.00	0.00	0.00
9,000.00 9,100.00	0.000 0.000	0.000 0.000	8,936.62 9,036.62	476.51 476.51	511.83 511.83	699.31 699.31	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00

# Plan Report for #14-11D-37 BTR - Plan A Rev 0 Proposal

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Toolface Azimuth (°)
9,200.00 9,300.00	0.000 0.000	0.000 0.000	9,136.62 9,236.62	476.51 476.51	511.83 511.83	699.31 699.31	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
9,349.38 <b>UTELAND</b>	0.000 <b>BUTTE</b>	0.000	9,286.00	476.51	511.83	699.31	0.00	0.00	0.00	0.00
9,400.00 9,459.38 <b>CR_1</b>	0.000 0.000	0.000 0.000	9,336.62 9,396.00	476.51 476.51	511.83 511.83	699.31 699.31	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
9,500.00 9,600.00	0.000 0.000	0.000 0.000	9,436.62 9,536.62	476.51 476.51	511.83 511.83	699.31 699.31	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
9,700.00 9,789.38 <b>WASATCH</b>	0.000 0.000	0.000 0.000	9,636.62 9,726.00	476.51 476.51	511.83 511.83	699.31 699.31	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
9,800.00 9,900.00 10,000.00	0.000 0.000 0.000	0.000 0.000 0.000	9,736.62 9,836.62 9,936.62	476.51 476.51 476.51	511.83 511.83 511.83	699.31 699.31 699.31	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
10,079.38 CR_2	0.000	0.000	10,016.00	476.51	511.83	699.31	0.00	0.00	0.00	0.00
10,100.00 10,200.00 10,300.00 10,400.00	0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000	10,036.62 10,136.62 10,236.62 10,336.62	476.51 476.51 476.51 476.51	511.83 511.83 511.83 511.83	699.31 699.31 699.31	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
10,500.00 10,519.38 <b>CR_3</b>	0.000 0.000	0.000 0.000	10,436.62 10,456.00	476.51 476.51	511.83 511.83	699.31 699.31	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
10,600.00 10,700.00 10,800.00	0.000 0.000 0.000	0.000 0.000 0.000	10,536.62 10,636.62 10,736.62	476.51 476.51 476.51	511.83 511.83 511.83	699.31 699.31 699.31	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
10,834.38 CR_4	0.000	0.000	10,771.00	476.51	511.83	699.31	0.00	0.00	0.00	0.00
10,900.00 11,000.00 11,100.00 11,129.38 CR_4A	0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000	10,836.62 10,936.62 11,036.62 11,066.00	476.51 476.51 476.51 476.51	511.83 511.83 511.83 511.83	699.31 699.31 699.31 699.31	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
11,200.00 11,254.38 CR_5	0.000 0.000	0.000 0.000	11,136.62 11,191.00	476.51 476.51	511.83 511.83	699.31 699.31	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
11,300.00 11,400.00 11,434.38 CR_6	0.000 0.000 0.000	0.000 0.000 0.000	11,236.62 11,336.62 11,371.00	476.51 476.51 476.51	511.83 511.83 511.83	699.31 699.31 699.31	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
11,500.00 11,600.00 11,699.38 CR_7	0.000 0.000 0.000	0.000 0.000 0.000	11,436.62 11,536.62 11,636.00	476.51 476.51 476.51	511.83 511.83 511.83	699.31 699.31 699.31	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
11,700.00 11,800.00	0.000 0.000	0.000 0.000	11,636.62 11,736.62	476.51 476.51	511.83 511.83	699.31 699.31	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
11,900.00 11,999.38 <b>TD - #14-1</b>	0.000 0.000 <b>1D-37 BTR_B</b> I	0.000 0.000 <b>HL Tgt</b>	11,836.62 11,936.00	476.51 476.51	511.83 511.83	699.31 699.31	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00

# Plan Report for #14-11D-37 BTR - Plan A Rev 0 Proposal

# **Plan Annotations**

Measured	Vertical	Local Coor	dinates	
Depth	Depth	+N/-S	+E/-W	Comment
(ft)	(ft)	(ft)	(ft)	
4,114.72	4,114.72	0.00	0.00	Begin 2°/100 Build at 4114.72 ft
4,664.72	4,661.35	35.87	38.52	End Build at 4664.72 ft
6,100.00	6,070.26	222.48	238.97	Hold INC at 11.00°
7,686.05	7,627.17	428.69	460.47	Begin 1.5°/100 Drop at 7686.05 ft
8,419.38	8,356.00	476.51	511.83	End Drop at 8419.38ft
11,999.38	11,936.00	476.51	511.83	Total Depth = 11999.38 ft

## **Vertical Section Information**

Angle			Origin	Orig	jin	Start
Туре	Target	Azimuth (°)	Type	+N/_S (ft)	+E/-W (ft)	TVD (ft)
Target	#14-11D-37 BTR_BHL Tgt	47.047	Slot	0.00	0.00	0.00

## Survey tool program

From	То		Survey/Plan	Survey Tool
(ft)	(ft)			
0.00	11,999.38	Plan A Rev 0 Proposal		MWD

#### **Casing Details**

Measured	Vertical			Casing	Hole
Depth	Depth		Name	Diameter	Diameter
(ft)	(ft)			(")	(")
4,000.00	4,000.00	9 5/8" Casing Pt.		9-5/8	13-1/2

# **Formation Details**

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip Dip Direction (°) (°)
5,076.95	5,066.00	GREEN_RIVER		
5,912.29	5,886.00	MAHOGANY		
7,374.15	7,321.00	TGR3		
8,139.13	8,076.00	DOUGLAS_CRK		
8,519.38	8,456.00	3PT_MKR		
8,689.38	8,626.00	BLACK_SHALE_FACIES		
8,954.38	8,891.00	CASTLE_PEAK		
9,349.38	9,286.00	UTELAND_BUTTE		
9,459.38	9,396.00	CR_1		
9,789.38	9,726.00	WASATCH		
10,079.38	10,016.00	CR_2		
10,519.38	10,456.00	CR_3		
10,834.38	10,771.00	CR_4		
11,129.38	11,066.00	CR_4A		
11,254.38	11,191.00	CR_5		
11,434.38	11,371.00	CR_6		
11,699.38	11,636.00	CR_7		
11,999.38	11,936.00	TD		

# Plan Report for #14-11D-37 BTR - Plan A Rev 0 Proposal

# Targets associated with this wellbore

	TVD	+N/-S	+E/-W	
Target Name	(ft)	(ft)	(ft)	Shape
#14-11D-37 BTR_SHL	0.00	0.00	0.00	Point
#14-11D-37 BTR_BHL Tgt	11,936.00	476.51	511.83	Point
#14-11D-37 BTR ZONE Tgt	8,456.00	476.51	511.83	Rectangle

# North Reference Sheet for Sec. 11-T3S-R7W - #14-11D-37 BTR - Plan A Rev 0

All data is in US Feet unless otherwise stated. Directions and Coordinates are relative to True North Reference.

Vertical Depths are relative to RKB 16' @ 6861.00ft (Patterson 506). Northing and Easting are relative to #14-11D-37 BTR

Coordinate System is US State Plane 1927 (Exact solution), Utah Central 4302 using datum NAD 1927 (NADCON CONUS), ellipsoid Clarke 1866

Projection method is Lambert Conformal Conic (2 parallel)

Central Meridian is -111.50°, Longitude Origin:0° 0' 0.000 E°, Latitude Origin:40° 39' 0.000 N°

False Easting: 2,000,000.00ft, False Northing: 0.00ft, Scale Reduction: 0.99992227

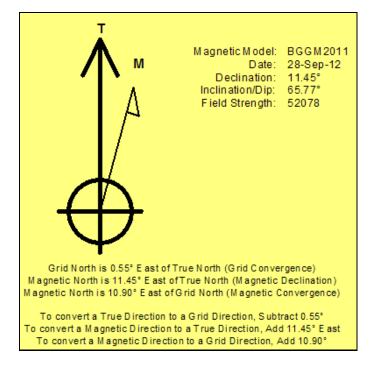
Grid Coordinates of Well: 691,149.49 ft N, 2,238,216.14 ft E

Geographical Coordinates of Well: 40° 13' 39.99" N, 110° 38' 48.57" W

Grid Convergence at Surface is: 0.55°

Based upon Minimum Curvature type calculations, at a Measured Depth of 11,999.38ft the Bottom Hole Displacement is 699.31ft in the Direction of 47.05° (True).

Magnetic Convergence at surface is: -10.90° (28 September 2012, , BGGM2011)



#### SURFACE DAMAGE AND RIGHT-OF-WAY SETTLEMENT AGREEMENT

This Agreement, made and entered into this the 5th day of April, 2011, by and between Ralph M. Giles, Trustee of the Ralph M. Giles Revocable Trust, with an address of P.O. Box 405, Tabiona, UT 84072-0405, ("Surface Owner"), and, Bill Barrett Corporation, 1099 18th Street, Suite 2300, Denver CO 80202, ("BBC").

#### WITNESSETH THAT:

WHEREAS, BBC owns undivided interests in certain oil and gas leases ("leases") covering and affecting Sections 11 and 12, Township 3 South, Range 7 West, USM, of Duchesne County, Utah; and,

WHEREAS, such leases grant to BBC the right and privilege of ingress, egress, exploring, drilling, mining, operating for, producing and owning oil and gas and all other products produced therewith, together with the right to make surveys on said lands, lay pipelines, construct roads and bridges, dig canals, build power stations, telephone lines, employee houses and other structures on said lands, necessary or useful in BBC's operations; and,

WHEREAS, BBC, pursuant to its rights under the Leases, intends to drill the following wells:

#14-11-37 BTR,

#16-11-37 BTR,

#14-12-37 BTR, and,

#16-12-37 BTR wells at legal drill-site locations in the S1/2 of Sections 11 and 12, Township 3 South, Range 7 West, USM, Duchesne County, Utah; and,

WHEREAS, Surface Owner warrants ownership to the surface of at least specific portions of the S1/2 of Sections 11 and 12, Township 3 South, Range 7 West, USM, Duchesne County, Utah, and which warranted ownership is further subject to all oil, gas and other mineral rights which are reserved for the use and benefit of the owners thereof; and,

Page 1 of 3

Ralph M. Giles (435)828-4161

BBC shall maintain all roads used pursuant to this Agreement and shall install culverts where necessary to insure adequate drainage from all roads.

BBC shall repair any fences and gates damaged by them during the course of their operations on the lands subject to this Agreement.

Surface Owner and their heirs or assigns shall have full access and use of the road built pursuant to this Agreement.

This Agreement shall inure to the benefit of the parties hereto, their heirs, successors and assigns and shall be a burden running with the land.

This Agreement may be executed in any number of counterparts and all such counterparts shall be deemed to constitute a single Agreement and the execution of one counterpart by any party hereto shall have the same force and effect as if said party had signed all other counterparts.

IN WITNESS WHEREOF, the parties have executed this Surface Damage Settlement Agreement effective as of the <u>5th day of April, 2011.</u>

SURFACE OWNER: BI	LL BARRETT CORPORATION
By: Ble To Siles To restar B Ralph M. Giles, Trustee	y: Luluit (18 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
COUNTY OF Ducksne	
On the day of May, 20 Leigh M. Jules Trustee, known to me to the foregoing instrument and acknowledged purpose and consideration therein expressed	. 0
	Notary Public Residing at: Suchestle Witch 84021
My Commission Expires: /2 11 10//	
	CORALEE SANCHEZ 239 West 300 North Duchestre, Uteh 64021 My Commission Expires December 17, 2011 State of Utah
STATE OF UTAH ) ) COUNTY OF SALT LAKE )	
On the	said instrument was signed in behalf of said Board of Directors and said
	Och William lorthy Notary Public
My Commission Expires: 10-24-2049	Residing at:  DANIEL WILLIAM COSTLEY  NOTATY PUBLIC-STATE OF UTUAN  COMMISSIONS 606945  COMM. EXP. 10-24-2014

#### SURFACE USE PLAN

#### **BILL BARRETT CORPORATION**

#### <u>14-11D-37 BTR Well Pad</u>

SE SW, 335' FSL and 1359' FWL, Section 11, T3S, R7W, USB&M (surface hole) SE SW, 810' FSL and 1871' FWL, Section 11, T3S, R7W, USB&M (bottom hole) Duchesne County, Utah

The onsite inspection with the surface owner was completed on June 15, 2011. Site specific conditions and/or mitigation measures will be as follows:

- 1. Stockpile wood for landowner
- 2. Utilize 20 mil liner over felt (minimum)
- 3. Solid Rock Construction

The excavation contractor would be provided with an approved copy of the surface use plan of operations before initiating construction.

#### 1. Existing Roads:

- a. The proposed well site is located approximately 16.9 miles northwest of Duchesne, Utah. Maps and directions reflecting the route to the proposed well site are included (see Topographic maps A and B).
- b. The existing Duchesne County maintained Koch Road (CR 23) would be utilized for 5.7 miles to an existing El Paso maintained access road that would be utilized for 1.3 miles that provides access to the planned new access road.
- c. Project roads would require routine year-round maintenance to provide year-round access. Maintenance would include inspections, reduction of ruts and holes, maintenance to keep water off the road, replacement of surfacing materials, and clearing of sediment blocking ditches and culverts. Should snow removal become necessary, roads would be cleared with a motor grader and snow would be stored along the down gradient side to prohibit runoff onto the road. Aggregate would be used as necessary to maintain a solid running surface and minimize dust generation.
- d. Vehicle operators would obey posted speed restrictions and observe safe speeds commensurate with road and weather conditions. Travel would be limited to the existing access roads and proposed access road.
- e. The use of roads under State and Duchesne County Road Department maintenance are necessary to access the project area with no improvements proposed. No encroachment or pipeline crossing permit are required
- f. All existing roads would be maintained and kept in good repair during all phases of operation.

Bill Barrett Corporation Surface Use Plan #14-11D-37 BTR Duchesne County, UT

## 2. <u>Planned Access Road</u>:

- a. Approximately 4,155 feet of new access road trending west is planned from the proposed 16-11-37 BTR, 14-12D-37, 16-12D-37, 14-7D-36 BTR access roads. The 16-11-37, 14-12D-37, 16-12D-37, 14-7D-36 BTR access has been applied for and continues an additional 10,053 feet to the existing El Paso maintained access road (see Topographic Map B).
- b. The road would be constructed to a 30-foot ROW width with an 18-foot travel surface. See section 12.d. below for disturbance estimates.
- c. New road construction and improvements of existing roads would typically require the use of motor graders, crawler tractors, 10-yard end dump trucks, and water trucks. The standard methodology for building new roads involves the use of a crawler tractor or track hoe to windrow the vegetation to one side of the road corridor, remove topsoil to the opposing side of the corridor, and rough-in the roadway. This is followed by a grader or bulldozer to establish barrow ditches and crown the road surface. Where culverts are required, a track hoe or backhoe would trench the road and install the culverts. Some hand labor would be required when installing and armoring culverts. Road base or gravel in some instances would be necessary and would be hauled in and a grader used to smooth the running surface.
- d. The proposed road would be constructed to facilitate drainage, control erosion and minimize visual impacts by following natural contours where practical. No unnecessary side-casting of material would occur on steep slopes.
- e. A maximum grade of 10% would be maintained throughout the project with minimum cuts and fills, as necessary, to access the well.
- f. Excess rock from construction of the pad may be used for surfacing of the access road if necessary. Any additional aggregate necessary would be obtained from private or State of Utah lands in conformance with applicable regulations. Aggregate would be of sufficient size, type, and amount to allow all weather access and alleviate dust.
- g. Where topsoil removal is necessary, it would be windrowed (i.e. stockpiled/accumulated along the edge of the ROW and in a low row/pile parallel with the ROW) and re-spread over the disturbed area after construction and backfilling are completed. Vegetation removed from the disturbed area would also be re-spread to provide protection, nutrient recycling, and a seed source for reclamation.
- h. Turnouts are not proposed because the access road is short and adequate site distance exists in all directions.

Bill Barrett Corporation Surface Use Plan #14-11D-37 BTR Duchesne County, UT

- i. No culverts or low-water crossings are anticipated. Adequate drainage structures, where necessary, would be incorporated into the remainder of the road to prevent soil erosion and accommodate all-weather traffic.
- j. No gates or cattle guards are anticipated at this time.
- k. Surface disturbance and vehicular travel would be limited to the approved location access road. Adequate signs would be posted, as necessary, to warn the public of project related traffic.
- All access roads and surface disturbing activities would conform to the
  appropriate standard, **no higher than necessary**, to accommodate their intended
  function adequately as outlined in the Bureau of Land Management and Forest
  Service publication: <u>Surface Operating Standards for Oil and Gas Exploration</u>
  and Development, Fourth Edition Revised 2007.
- m. The operator would be responsible for all maintenance needs of the new access road.

## 3. <u>Location of Existing Wells (see One-Mile Radius Map):</u>

a. Following is a list of wells with surface hole locations within a one-mile radius of the proposed pad:

i.	water wells	none
ii.	injection wells	none
iii.	disposal wells	none
iv.	drilling wells	none
v.	temp shut-in wells	none
vi.	producing wells	none
vii.	abandoned wells	two

#### 4. Location of Production Facilities

- a. Surface facilities would consist of a wellhead, separator, gas meter, (1) 500 gal methanol tank, (1) 500 glycol tank, (3) 500 bbl oil tanks, (1) 500 bbl water tank, (1) 500 bbl test tank, (1) 1000 gal propane tank, a pumping unit or Roto-flex unit or gas lift unit with a natural gas fired motor, solar panels, solar chemical and methanol pumps and one trace pump. See attached proposed facility diagram.
- b. Most wells would be fitted with a pump jack or Roto-flex unit or gas lift to assist liquid production if liquid volumes and/or low formation pressures require it. Plunger lift systems do not require any outside source of energy. The prime mover for pump jacks or Roto-flex units would be small (75 horsepower or less), natural gas-fired internal combustion engines. If a gas lift is installed, it would be set on a 10 ft x 15 ft pad and the prime mover would be a natural gas-fired internal combustion engine rated at 200 horsepower or less or an electric compressor of similar horsepower powered by a generator.

Bill Barrett Corporation Surface Use Plan #14-11D-37 BTR Duchesne County, UT

- c. The tank battery would be surrounded by a secondary containment berm of sufficient capacity to contain 1.1 times the entire capacity of the largest single tank and sufficient freeboard to contain precipitation. All loading lines and valves would be placed inside the berm surrounding the tank battery or would utilize catchment basins to contain spills. All liquid hydrocarbon production and measurement shall conform to the provisions of 43 CFR 3162.7-2 and Onshore Oil and Gas Order No. 4 for the measurement of oil.
- d. Gas meter run(s) would be constructed and located on lease within 500 feet of the wellheads. Meter runs would be housed and/or fenced. As practicably feasible, meters would be equipped with remote telemetry monitoring systems. All gas production and measurement shall comply with the provisions of 43 CFR 3162.7-3, Onshore Oil and Gas Order No. 5, and American Gas Association (AGA) Report No. 3.
- e. A combustor may be installed at this location for control of associated condensate tank emissions. A combustor ranges from 24 inches to 48 inches wide and is approximately 27 ft tall. Combustor placement would be on existing disturbance.
- f. Approximately 4,059 feet of pipeline corridor (see Topographic Map C) containing up to three lines (one gas pipeline up to 8 inch in diameter, one water line up to 4 inch in diameter and one residue line up to 4 inch in diameter) is proposed trending east to the proposed 16-11-37 BTR, 14-12D-37, 16-12D-37, 14-7D-36 BTR pipeline corridor. The 16-11-37 BTR, 14-12D-37, 16-12D-37, 14-7D-36 BTR pipeline corridors have been applied for and continue approximately 10,053 feet to the existing pipeline corridor. Pipelines would be constructed of steel, polyethylene or fiberglass and would connect to the proposed pipeline servicing nearby BBC and El Paso wells. The pipeline crosses entirely private surface.
- g. The new segment of gas pipeline would be surface laid within a 30 foot wide pipeline corridor adjacent to the proposed access road. See 12.d below for disturbance estimates.
- h. Construction of the ROW would temporarily utilize the 30 foot disturbed width for the road for a total disturbed width of 60 foot for the road and pipeline corridors. The use of the proposed well site and access roads would facilitate the staging of the pipeline construction.
- Pipeline construction methods and practices would be planned and conducted by BBC with the objective of enhancing reclamation and fostering the reestablishment of the native plant community.
- j. All permanent above-ground structures would be painted a flat, non-reflective color, such as Beetle Green, to match the standard environmental colors. All facilities would be painted the designated color at the time of installation.

Bill Barrett Corporation Surface Use Plan #14-11D-37 BTR Duchesne County, UT

Facilities required to comply with the Occupational Safety and Health Act (OSHA) may be excluded.

- k. Site security guidelines identified in 43 CFR 3162.7-5 and Onshore Oil and Gas Order No. 3 would be adhered to. Any modifications to proposed facilities would be reflected in the site security diagram submitted.
- 1. The site would require periodic maintenance to ensure that drainages are kept open and free of debris, and that surfaces are properly treated to reduce erosion, fugitive dust, and impacts to adjacent areas.

## 5. <u>Location and Type of Water Supply:</u>

a. Water for the drilling and completion would be trucked from any of the following locations:

Water Right No. and Application or Change No.	Applicant	Allocation	Date	Point of Diversion	Source
43-180	Duchesne City Water Service District	5 cfs	8/13/2004	Knight Diversion Dam	Duchesne River
43-1202, Change a13837	Myton City	5.49 cfr and 3967 acre feet	3/21/1986	Knight Diversion Dam	Duchesne River
43-10444, Appln A57477	Duchesne County Upper Country Water	2 cfs	1994	Ditch at Source	Cow Canyon Spring
43-10446, Appln F57432	Duchesne County Upper Country Water	1.58 cfs	1994	Ditch at Source	Cow Canyon Spring
43-1273, Appln A17462	J.J.N.P. Company	7 cfs	1946	Strawberry River	Strawberry River
43-1273, Appln t36590	J.J.N.P. Company	4 cfs	6/03/2010	Strawberry River	Strawberry River

- b. No new water well is proposed with this application.
- c. Should additional water sources be pursued they would be properly permitted through the State of Utah Division of Water Rights.
- d. Water use would vary in accordance with the formations to be drilled but would be up to approximately 5.41 acre feet for drilling and completion operations.

#### 6. Source of Construction Material:

a. The use of materials would conform to 43 CFR 3610.2-3.

Bill Barrett Corporation Surface Use Plan #14-11D-37 BTR Duchesne County, UT

- b. No construction materials would be removed from the lease or EDA area.
- c. If any additional gravel is required, it would be obtained from a local supplier having a permitted source of materials within the general area.

# 7. <u>Methods of Handling Waste Disposal:</u>

- a. All wastes associated with this application would be contained and disposed of utilizing approved facilities.
- b. The reserve pit would be constructed so as not to leak, break or allow any discharge.
- c. The reserve would be lined with 12 mil (minimum) thickness polyethylene nylon reinforced liner material. The liner(s) would overlay straw, dirt and/or bentonite if rock is encountered during excavation. The liner would overlap the pit walls and be covered with dirt and/or rocks to hold them in place. No trash, scrap pipe, or other materials that could puncture the liner would be discarded in the pit. A minimum of two feet of free board would be maintained between the maximum fluid level and the top of the reserve pit at all times.
- d. To deter livestock from entering the pit, the three sides exterior to the location would be fenced before drilling starts. Following the conclusion of drilling and completion activities, the fourth side would also be fenced.
- e. Drill cuttings would be contained in the pit and buried on-site for a period not to exceed six months, weather permitting
- f. Produced fluids from the well other than water would be decanted into steel test tank(s) until such time as construction of production facilities is completed. Any oil that may be accumulated would be transferred to a permanent production tank. Produced water may be used in further drilling and completion activities, evaporated in the pit, or would be hauled to one of the state-approved disposal facilities below:

#### **Disposal Facilities**

- 1. RNI Industries, Inc. Pleasant Valley Disposal Pits, Sec. 25, 26, 35 & 36, T4S-R3W
- 2. Pro Water LLC Blue Bench 13-1 Disposal Well (43-013-30971) NENE, Sec. 13, T3S-R5W
- 3. RN Industries, Inc. Bluebell Disposal Ponds, Sec. 2, 4 & 9, T2S-R2W
- 4. Water Disposal, Inc. Harmston 1-32-A1 Disposal Well (43-013-30224), UTR #00707, Sec. 32, T1S-R1W
- 5. Unified Water Pits Sec. 31, T2S-R4W
- 6. Iowa Tank Line Pits 8500 BLM Fence Road, Pleasant Valley

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- g. Any salts and/or chemicals, which are an integral part of the drilling system, would be disposed of in the same manner as the drilling fluid.
- h. Any spills of oil, condensate, produced or frac water, drilling fluids, or other potentially deleterious substances would be recovered and either returned to its origin or disposed of at an approved disposal site, most likely in Duchesne, Utah.
- i. Chemicals on the EPA's Consolidated List of Chemicals subject to reporting under Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) may be used or stored in quantities over reportable quantities. In the course of drilling, BBC could potentially store and use diesel fuel, sand (silica), hydrochloric acid, and CO<sub>2</sub> gas, all described as hazardous substances in 40 CFR Part 302, Section 302.4, in quantities exceeding 10,000 pounds. In addition, natural gas condensate and crude oil and methanol may be stored or used in reportable quantities. Small quantities of retail products (paint/spray paints, solvents {e.g., WD-40}, and lubrication oil) containing non-reportable volumes of hazardous substances may be stored and used on site at any time. No extremely hazardous substances, as defined in 40 CFR 355, would be used, produced, stored, transported or disposed of in association with the drilling, testing or completion of the wells.
- j. Portable toilets and trash containers would be located onsite during drilling and completion operations. A commercial supplier would install and maintain portable toilets and equipment and would be responsible for removing sanitary waste. Sanitary waste facilities (i.e. toilet holding tanks) would be regularly pumped and their contents disposed of at approved sewage disposal facilities in Duchesne, and/or Uintah Counties, in accordance with applicable rules and regulations regarding sewage treatment and disposal. Accumulated trash and nonflammable waste materials would be hauled to an approved landfill once a week or as often as necessary. All debris and waste materials not contained in the trash containers would be cleaned up, removed from the construction ROW, well pad, or worker housing location, and disposed of at an approved landfill. Trash would be cleaned up everyday.
- k. Sanitary waste equipment and trash bins would be removed from the Project Area upon completion of access road or pipeline construction; following drilling and completion operations at an individual well pad; when worker housing is no longer needed; or as required.
- 1. A flare pit may be constructed a minimum of 110' from the wellhead(s) and may be used during completion work. In the event a flare pit proves to be unworkable, a temporary flare stack or open top tank would be installed. BBC would flow back as much fluid and gas as possible into pressurized vessels, separating the fluids from the gas. In some instances, due to the completion fluids utilized within the Project Area, it is not feasible to direct the flow stream from the wellbore through pressurized vessels. In such instances BBC proposes to direct the flow to the open top tanks until flow through the pressurized vessels is feasible. At which point the fluid would either be returned to the reserve pit or

Bill Barrett Corporation Surface Use Plan #14-11D-37 BTR Duchesne County, UT

placed into a tank(s). The gas would be directed to the flare pit, flare stack (each with a constant source of ignition), or may be directed into the sales pipeline.

m. Hydrocarbons would be removed from the reserve pit would as soon as practical. In the event immediate removal is not practical, the reserve pit would be flagged overhead or covered with wire or plastic mesh to protect migrating birds.

## 8. <u>Ancillary Facilities:</u>

- a. Garbage containers and portable toilets would be located on the well pad.
- b. On well pads where active drilling and completion is occurring, temporary housing would be provided on location for the well pad supervisor, geologist, tool pusher, and others that are required to be on location at all times. The well pad could include up to five single wide mobile homes or fifth wheel campers/trailers.
- c. A surface powerline corridor 4,155 feet in length is proposed for installation by third-party installer within a 150 foot wide powerline corridor adjacent to the proposed access road. See 12.d below for disturbance estimates.

## 9. Well Site Layout:

- a. The well would be properly identified in accordance with 43 CFR 3162.6.
- b. The pad layout, cross section diagrams and rig layout are enclosed (see Figures 1 and 2).
- c. The pad and road designs are consistent with industry specifications.
- d. The pad has been staked at its maximum size of 400 feet x 300 feet with an inboard reserve pit size of 100 feet x 205 feet x 8 feet deep. See section 12.d below for disturbance estimates.
- e. Within the approved well pad location, a crawler tractor would strip whatever topsoil is present and stockpile it along the edge of the well pad for use during reclamation. Vegetation would be distributed along the sides of the well pad.
- f. Fill from pit excavation would be stockpiled along the edge of the pit and the adjacent edge of the well pad.
- g. Use of erosion control measures, including proper grading to minimize slopes, diversion terraces and ditches, mulching, terracing, riprap, fiber matting, temporary sediment traps, and broad-based drainage dips or low water crossings would be employed by BBC as necessary and appropriate to minimize erosion and surface runoff during well pad construction and operation. Cut and fill slopes would be constructed such that stability would be maintained for the life of the activity.

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- h. All cut and fill slopes would be such that stability can be maintained for the life of the activity.
- i. Diversion ditches would be constructed, if necessary, around the well site to prevent surface waters from entering the well site area.
- j. Water application may be implemented if necessary to minimize the amount of fugitive dust.
- k. All surface disturbing activities would be supervised by a qualified, responsible company representative who is aware of the terms and conditions of the APD and specifications in the approved plans.

#### 10. Plan for Restoration of the Surface:

- a. A site specific reclamation plan would be submitted, if requested, within 90 days of location construction to the surface managing agency or the fee landowners.
- b. Site reclamation would be accomplished for portions of the well pad not required for the continued operation of the well on this pad within six months of completion, weather permitting.
- c. The operator would control noxious weeds along access road use authorizations and well site by spraying or mechanical removal, according to the Utah Noxious Weed Act and as set forth in the approved surface damage agreements.
- d. Rat and mouse holes would be filled and compacted from bottom to top immediately upon release of the drilling rig from location. Upon well completion, any hydrocarbons in the pit shall be removed in accordance with 43 CFR 3162.7-1. The reserve pit would be allowed to dry prior to the commencement of backfilling work. No attempts would be made to backfill the reserve pit until it is free of standing water. Once dry, the liner would be torn and perforated before backfilling.
- e. The reserve pit and that portion of the location not needed for production facilities/operations would be recontoured to the approximate natural contours. Areas not used for production purposes would be backfilled and blended into the surrounding terrain, reseeded and erosion control measures installed. Mulching, erosion control measures and fertilization may be required to achieve acceptable stabilization. Back slopes and fore slopes would be reduced as practical and scarified with the contour. The reserved topsoil would be evenly distributed over the slopes and scarified along the contour. Slopes would be seeded with the landowner specified seed mix.
- f. Topsoil salvaged from the drill site and stored for more than one year would be placed at the location indicated on the well site layout drawing and graded to a

Bill Barrett Corporation Surface Use Plan #14-11D-37 BTR Duchesne County, UT

depth optimum to maintain topsoil viability, seeded with the landowner prescribed seed mixture and covered with mulch for protection from wind and water erosion and to discourage the invasion of weeds.

## 11. <u>Surface and Mineral Ownership:</u>

- a. Surface ownership Ralph M. Giles Revocable Trust PO Box 405, Tabiona, UT 84072; 435-828-4161
- b. Mineral ownership Ute Indian Tribe 988 South 7500 East; Ft. Duchesne, Utah 84026; 435-725-4982.

#### 12. Other Information:

- a. Montgomery Archeological Consultants has conducted a Class III archeological survey. A copy of the report has been submitted under separate cover to the appropriate agencies by Montgomery as report 11-088 dated May 25, 2011.
- BBC would require that their personnel, contractors, and subcontractors to comply with Federal regulations intended to protect archeological and cultural resources.
- c. Project personnel and contractors would be educated on and subject to the following requirements:
  - No dogs or firearms within the Project Area.
  - No littering within the Project Area.
  - Smoking within the Project Area would only be allowed in off-operator
    active locations or in specifically designated smoking areas. All cigarette
    butts would be placed in appropriate containers and not thrown on the
    ground or out windows of vehicles; personnel and contractors would abide
    by all fire restriction orders.
  - Campfires or uncontained fires of any kind would be prohibited.
  - Portable generators used in the Project Area would have spark arrestors.

#### d. Disturbance estimates:

#### **Approximate Acreage Disturbances**

Well Pad		3.616	acres
*Access	4,155 feet		
*Pipeline	4,059 feet		
Powerline	4,155 feet	14.307	acres

Total 17.92 acres

<sup>\*</sup>Access and Pipeline disturbance is included within the Powerline

**Bill Barrett Corporation** Surface Use Plan #14-11D-37 BTR Duchesne County, UT

#### **OPERATOR CERTIFICATION**

#### Certification:

I hereby certify that I, or someone under my direction supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein would be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application and that bond coverage is provided under Bill Barrett Corporations federal nationwide bond. These statements are subject to the provisions of 18 U.S.C. 1001 for the filings of false statements.

24th day of June 2011 Venessa Langmacher Executed this

Name: Senior Permit Analyst Position Title:

1099 18th Street, Suite 2300, Denver, CO 80202 Address:

303-312-8172 Telephone:

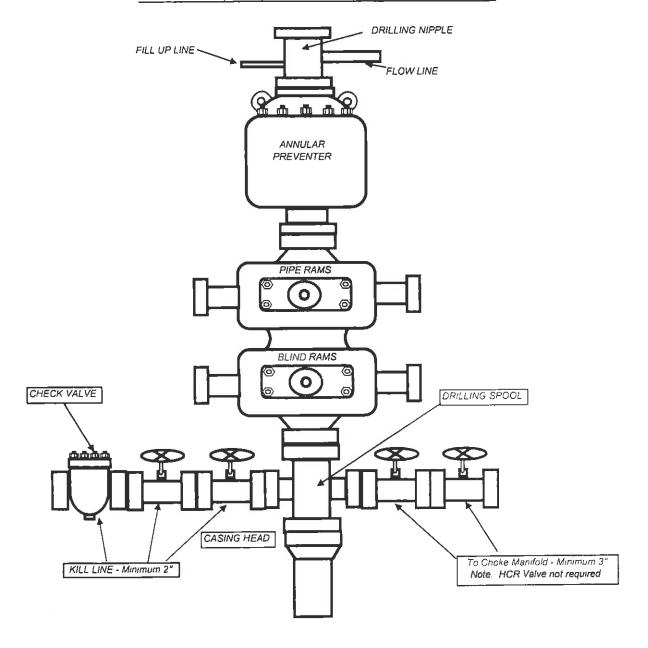
vlangmacher@billbarrettcorp.com E-mail: Field Representative Kary Eldredge / Bill Barrett Corporation 1820 W. Highway 40, Roosevelt, UT 84066 Address: 435-725-3515 (office); 435-724-6789 (mobile) Telephone:

E-mail: keldredge@billbarrettcorp.com

Venessa Langmacher, Senior Permit Analyst

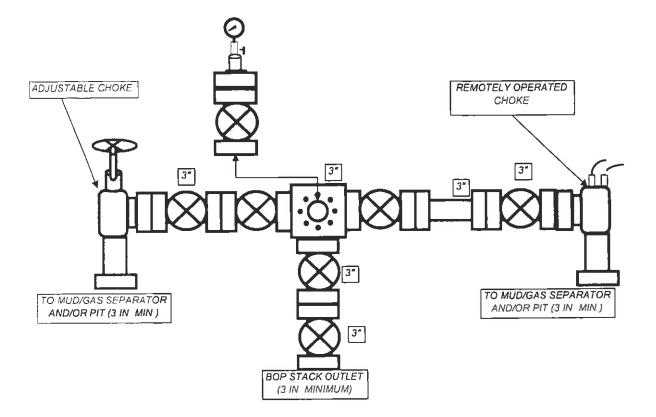
# **BILL BARRETT CORPORATION**

# TYPICAL 5,000 p.s.i. BLOWOUT PREVENTER



# **BILL BARRETT CORPORATION**

TYPICAL 5,000 p.s.i. CHOKE MANIFOLD





June 24, 2011

Ms. Diana Mason – Petroleum Technician State of Utah Division of Oil, Gas and Mining 1594 West North Temple, Suite 1210 P. O. Box 145801 Salt Lake City, Utah 84114-5801

Re: Directional Drilling R649-3-11

Blacktail Ridge Area #14-11D-37 BTR Well

Surface: 335' FSL & 1,359' FWL, SESW, 11-T3S-R7W, USM Bottom Hole: 810' FSL & 1,871' FWL, SESW, 11-T3S-R7W, USM

Duchesne County, Utah

Dear Ms. Mason,

Pursuant to the filing of Bill Barrett Corporation's ("BBC") Application for Permit to Drill the above referenced well, we hereby submit this letter in accordance with Oil & Gas Conservation Rules R649-2, R649-3, R649-10 and R649-11, pertaining to the Location and Siting of Wells.

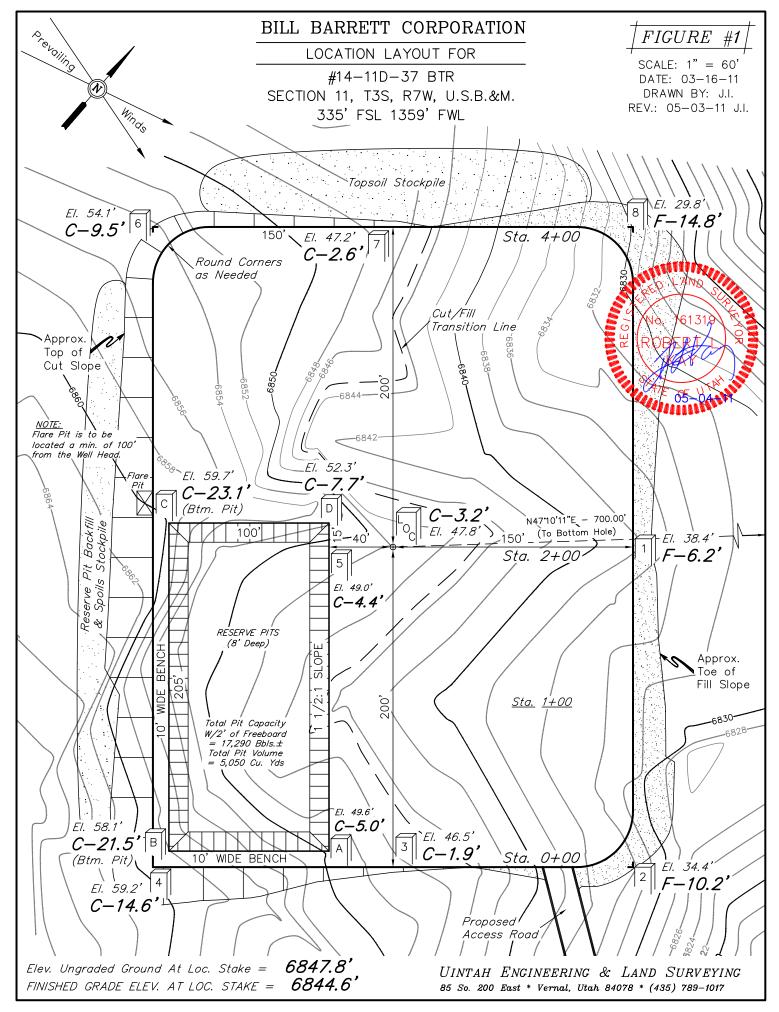
- The proposed location is within our Blacktail Ridge Area.
- BBC is permitting this well as a directional well in order to minimize surface disturbance. By locating the well at the surface location and directionally drilling from this location, BBC will be able to utilize the existing road and pipelines in the area.
- The well will be drilled under an Exploration and Development Agreement between the Ute Indian Tribe and Ute Distribution Corporation. Ute Energy, LLC owns a right to participate in this well.
- BBC certifies that it is the working interest owner of all lands within 460 feet of the proposed well location, and together with Ute Energy, LLC, we own 100% of the working interest in these lands.

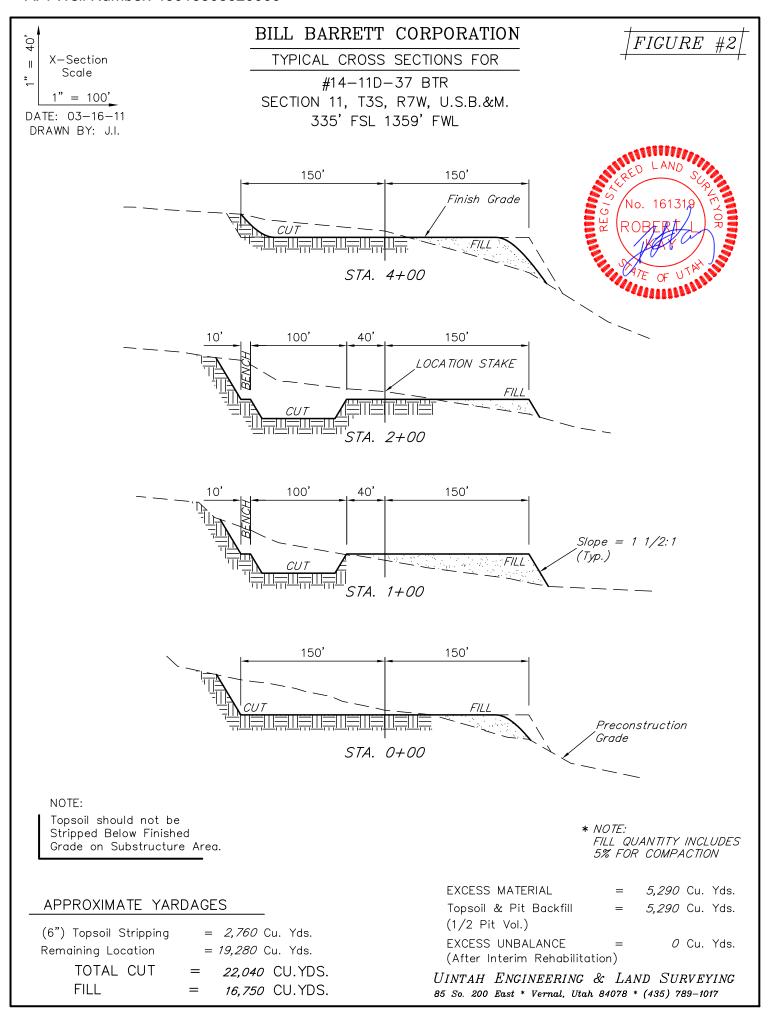
Based on the information provided, BBC requests that the permit be granted pursuant to R649-3-11. Should you have any questions or need further information, please contact me at 303-312-8544.

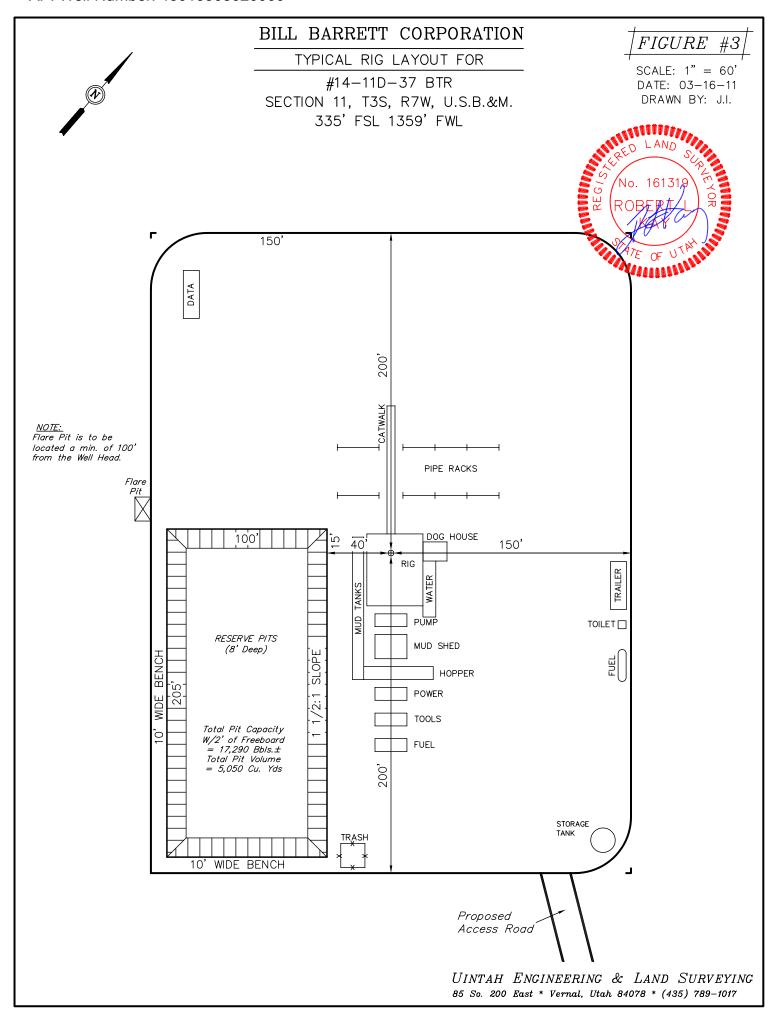
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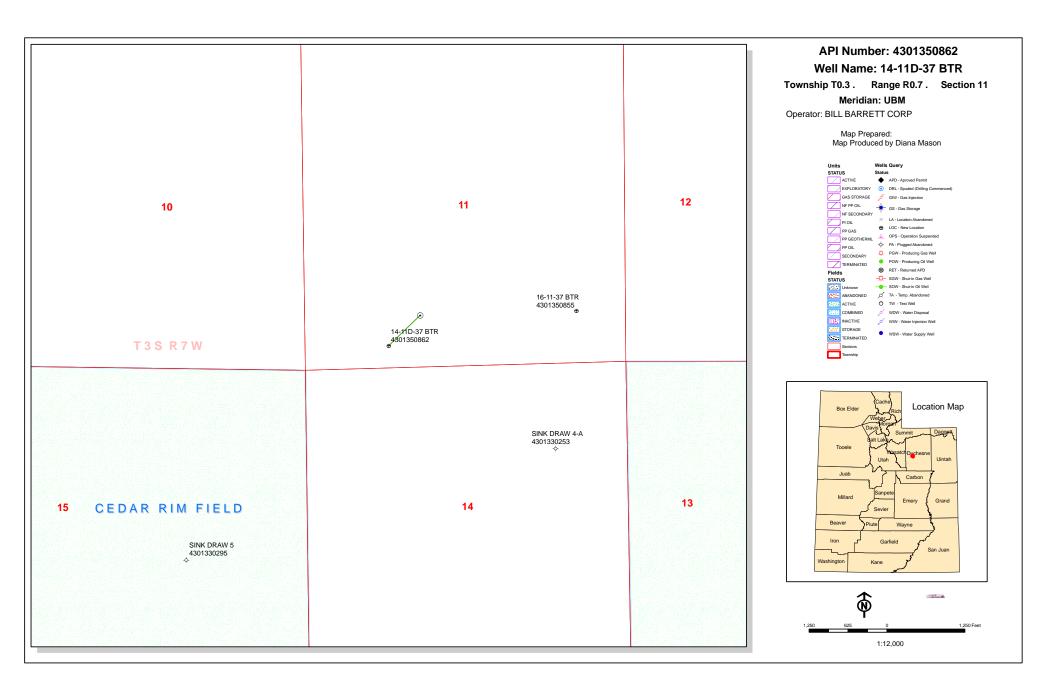
David Watts Landman

> 1099 18<sup>TH</sup> STREET SUITE 2300 DENVER, CO 80202 P 303.293.9100 F 303.291.0420









# **ON-SITE PREDRILL EVALUATION**

# Utah Division of Oil, Gas and Mining

**Operator** BILL BARRETT CORP

Well Name 14-11D-37 BTR

API Number 43013508620000 APD No 4108 Field/Unit UNDESIGNATED

**Location: 1/4,1/4** SESW **Sec** 11 **Tw** 3.0S **Rng** 7.0W 335 FSL 1359 FWL

GPS Coord (UTM) 530047 4452888 Surface Owner Ralph M. Giles Revocable Trust

#### **Participants**

James Hereford (BLM), Kary Eldredge (Bill Barrett), Roger Knight (Bill Barrett), Don Hamilton (Star Point), Trevor Anderson (UELS), Joe Avia (EIS), Richard Powell (DOGM), Kelly Jo Jackson (Montgomery)

## Regional/Local Setting & Topography

This location sits on a north east facing slope poised approximately 1.5 miles south and west of Rabbit Gulch. Drainage from this location flows to a small draw directly to the north of the location which then flows to Rabbit Gulch. Rabbit Gulch is the dominate drainage wash and feature of this region and flows to Starvation Lake approximately 8 miles east. It is approximately 17 miles east to Duchesne, UT.

#### Surface Use Plan

**Current Surface Use** 

Wildlfe Habitat

Deer Winter Range

New Road Miles Well Pad Src Const Material Surface Formation

0.8 Width 290 Length 400 Onsite UNTA

**Ancillary Facilities** N

Waste Management Plan Adequate? Y

#### **Environmental Parameters**

Affected Floodplains and/or Wetlands N

#### Flora / Fauna

Deer, elk, coyote, rabbits and other small mammals, song birds, raptors Sage, prickly pear cactus, grasses, mahogany

## Soil Type and Characteristics

Sandy soil, exposed rock on surface

**Erosion Issues** N

**Sedimentation Issues** N

Site Stability Issues N

**Drainage Diverson Required?** Y

Minor drainages must be diverted

Berm Required? N

7/11/2011 Page 1

**Erosion Sedimentation Control Required?** N

Paleo Survey Run? N Paleo Potental Observed? N Cultural Survey Run? Y Cultural Resources? Y

## **Reserve Pit**

Site-Specific Factors	Site Ranking		
Distance to Groundwater (feet)	>200	0	
Distance to Surface Water (feet)	>1000	0	
Dist. Nearest Municipal Well (ft)	>5280	0	
Distance to Other Wells (feet)	>1320	0	
Native Soil Type	High permeability	20	
Fluid Type	Fresh Water	5	
Drill Cuttings	Normal Rock	0	
<b>Annual Precipitation (inches)</b>	10 to 20	5	
<b>Affected Populations</b>			
<b>Presence Nearby Utility Conduits</b>	Not Present	0	
	Final Score	30	1 Sensitivity Level

## **Characteristics / Requirements**

The reserve pit will be place in cut in a stable location. The pit will be 100ft x 205ft x 8ft deep with a total capacity including freeboard of 17,290bbl. Kary Eldredge of BBC said they will use a 20 mil liner with a felt sub-liner.

Closed Loop Mud Required? N Liner Required? Y Liner Thickness 16 Pit Underlayment Required? Y

## **Other Observations / Comments**

Richard Powell 6/15/2011 **Evaluator Date / Time** 

7/11/2011 Page 2

# **Application for Permit to Drill Statement of Basis**

7/11/2011 Utah Division of Oil, Gas and Mining

Page 1

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
4108	43013508620000	LOCKED	OW	P	No
Operator	BILL BARRETT CORP		Surface Owner-APD	Ralph M. Giles Revocable Trust	
Well Name	14-11D-37 BTR		Unit		
Field	ield UNDESIGNATED		Type of Work	DRILL	

**Location** SESW 11 3S 7W U 335 FSL 1359 FWL GPS Coord (UTM) 530051E 4452873N

## **Geologic Statement of Basis**

The mineral rights for the proposed well are owned by the Ute Tribe. The BLM will be the agency responsible for evaluating and approving the drilling, casing and cement programs.

Brad Hill 7/11/2011 **APD Evaluator Date / Time** 

#### **Surface Statement of Basis**

This onsite evaluation was scheduled by James Hereford of the BLM. According to Mr. Hereford, the land owner Ralph M. Giles was contacted but chose not to attend. Mr. Hereford related concerns which he did discuss with Mr. Giles. Mr. Giles requested that disturbance to the land be kept as minimal as possible. Also, there is a very old brush fence which Mr. Giles requested to be preserved. The access road to this particular well does not affect the brush fence but the earlier sections of road leading to wells which will be passed on the way to this well do cross or pass nearby the brush fence. During the onsite on Mr. Giles land, Kelly Jackson of Montgomery archeology flagged the brush fences to mark appropriate road rerouting.

Richard Powell 6/15/2011
Onsite Evaluator Date / Time

#### Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A synthetic liner with a minimum thickness of 16 mils with a felt subliner shall be properly installed and maintained in the reserve pit.
Surface	The well site shall be bermed to prevent fluids from leaving the pad.
Surface	Drainages adjacent to the proposed pad shall be diverted around the location.
Surface	The reserve pit shall be fenced upon completion of drilling operations.

# WORKSHEET APPLICATION FOR PERMIT TO DRILL

**APD RECEIVED:** 6/24/2011 API NO. ASSIGNED: 43013508620000 **WELL NAME: 14-11D-37 BTR PHONE NUMBER:** 303 312-8172 **OPERATOR:** BILL BARRETT CORP (N2165) **CONTACT:** Venessa Langmacher

PROPOSED LOCATION: SESW 11 030S 070W **Permit Tech Review:** 

> SURFACE: 0335 FSL 1359 FWL **Engineering Review:**

> **BOTTOM:** 0810 FSL 1871 FWL Geology Review:

**COUNTY: DUCHESNE** 

**LATITUDE:** 40.22764 **LONGITUDE:** -110.64678 UTM SURF EASTINGS: 530051.00 NORTHINGS: 4452873.00

FIELD NAME: UNDESIGNATED **LEASE TYPE:** 2 - Indian

**LEASE NUMBER: 20G0005608** PROPOSED PRODUCING FORMATION(S): GREEN RIVER-WASATCH

**SURFACE OWNER: 4 - Fee COALBED METHANE: NO** 

## **RECEIVED AND/OR REVIEWED: LOCATION AND SITING:** PLAT R649-2-3. Bond: INDIAN - LPM8874725 Unit: **Potash** R649-3-2. General Oil Shale 190-5 R649-3-3. Exception Oil Shale 190-3 Oil Shale 190-13 **Drilling Unit** Board Cause No: Cause 139-85 Water Permit: Duchesne City Culinary Water Dock Effective Date: 3/11/2010 **RDCC Review:** Siting: 4 Prod LGGRV-WSTC Wells in Drilling Units **✓** Fee Surface Agreement **Intent to Commingle** ■ R649-3-11. Directional Drill **Commingling Approved**

**Comments:** Presite Completed

Stipulations:

4 - Federal Approval - dmason 5 - Statement of Basis - bhill 15 - Directional - dmason

API Well No: 43013508620000



# State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

# **Permit To Drill**

\*\*\*\*\*

Well Name: 14-11D-37 BTR
API Well Number: 43013508620000
Lease Number: 2OG0005608
Surface Owner: FEE (PRIVATE)

**Approval Date:** 7/11/2011

#### **Issued to:**

BILL BARRETT CORP, 1099 18th Street Ste 2300, Denver, CO 80202

#### **Authority:**

Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 139-85. The expected producing formation or pool is the GREEN RIVER-WASATCH Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

#### **Duration:**

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

#### General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

#### **Conditions of Approval:**

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

## **Notification Requirements:**

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

• Within 24 hours following the spudding of the well – contact Carol Daniels at 801-538-5284 (please leave a voicemail message if not available)
OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at http://oilgas.ogm.utah.gov

API Well No: 43013508620000

# **Reporting Requirements:**

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) due within 5 days of spudding the well
- Monthly Status Report (Form 9) due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) due prior to implementation
- Written Notice of Emergency Changes (Form 9) due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) due prior to implementation
- Report of Water Encountered (Form 7) due within 30 days after completion
- Well Completion Report (Form 8) due within 30 days after completion or plugging

**Approved By:** 

For John Rogers Associate Director, Oil & Gas

## RECEIVED

**UNITED STATES** DEPARTMENT OF THE INTERIOR JUN 2 8 2011

FORM APPROVED OMB No. 1004-0136 Expires July 31, 2010

Lease Serial No 20G0005608

BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT	TO DRILL OR REENTER	6. If Indian, Allottee or Tri	be Name
1a. Type of Work: ☑ DRILL ☐ REENTER		7. If Unit or CA Agreemen	nt, Name and No.
lb. Type of Well: ☑ Oil Well ☐ Gas Well ☐ Oth		8. Lease Name and Well N 14-11D-37 BTR	lo.
Name of Operator Contact:     BILL BARRETT CORPORATION E-Mail: vlangma	VENESSA LANGMACHER acher@billbarrettcorp.com	9. API Well No. 43-013-5	0862
3a. Address 1099 18TH STREET SUITE 2300 DENVER, CO 80202	3b. Phone No. (include area code) Ph: 303-312-8172 Fx: 303-291-0420	10. Field and Pool, or Expl CEDAR RIM	loratory
4. Location of Well (Report location clearly and in accorded	I ance with any State requirements.*)	11. Sec., T., R., M., or Blk	. and Survey or Area
At surface SESW 335FSL 1359FWL 4	40.227731 N Lat, 110.647539 W Lon	Sec 11 T3S R7W M	ler UBM
At proposed prod. zone SESW 810FSL 1871FWL	40.229039 N Lat, 110.645706 W Lon		
14. Distance in miles and direction from nearest town or post 16.9 MILES NORTHWEST OF DUCHESNE, UT	office*	12. County or Parish DUCHESNE	13. State UT
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig, unit line, if any)	16. No. of Acres in Lease	17. Spacing Unit dedicated	to this well
810'	66101.00	640.00	
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. or	n file
3053 <sup>†</sup>	11999 MD 11936 TVD	LPM8874725	
21. Elevations (Show whether DF, KB, RT, GL, etc. 6848 GL	22. Approximate date work will start 01/01/2012	23. Estimated duration 60 DAYS (D&C)	
	24. Attachments		
The following, completed in accordance with the requirements of	of Onshore Oil and Gas Order No. 1, shall be attached to	this form:	
<ol> <li>Well plat certified by a registered surveyor.</li> <li>A Drilling Plan.</li> <li>A Surface Use Plan (if the location is on National Forest Syst SUPO shall be filed with the appropriate Forest Service Of</li> </ol>	4. Bond to cover the operation ltem 20 above). 5. Operator certification 6. Such other site specific infauthorized officer.		,
25. Signature (Electronic Submission)	Name (Printed/Typed) VENESSA LANGMACHER Ph: 303-312	2-8172	Date 06/24/2011
Title SENIOR PERMIT ANALYST			
Approved by (Signature)	Name (Printed/Typed)  Jerry Kenczka		0CT 0 6 201
Assistant Field Manager Lands & Mineral Resources	VERNAL FIELD OFFICE	=	
Application approval does not warrant or certify the applicant hoperations thereon.  Conditions of approval, if any, are attached.  CONDIT	TONS OF APPROVAL ATTACHED		
Fitle 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, States any false, fictitious or fraudulent statements or representated.	make it a crime for any person knowingly and willfully a crime for any matter within its jurisdiction.		ECEIVED
Additional Operator Remarks (see next page)	on #111443 verified by the BI M Well Inform	mation System	ICT 17 2011

Electronic Submission #111443 verified by the BLM Well Information System For BILL BARRETT CORPORATION, sent to the Vernal Committed to AFMSS for processing by LESLIE ROBINSON on 06/29/2011 ()

DIV. OF OIL, GAS & MINING

NOTICE OF APPROVAL



\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\*

IIIBRODATAE

-NO NOS-



#### UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT VERNAL FIELD OFFICE**

**VERNAL, UT 84078** 

(435) 781-4400



#### CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company:	Bill Barrett Corporation	Location:	SESW, Sec. 11 T3S R7W USM
Well No:	14-11D-37 BTR	Lease No:	EDA 20G0005608
API No:	43-013-50862	Agreement:	2OG0005608

**OFFICE NUMBER:** 

(435) 781-4400

OFFICE FAX NUMBER: (435) 781-3420

#### A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR FIELD REPRESENTATIVE TO INSURE COMPLIANCE

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.

#### **NOTIFICATION REQUIREMENTS**

Construction Activity (Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)	-	The Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist shall be notified at least 48 hours in advance of any construction activity. The Ute Tribal office is open Monday through Thursday.
Construction Completion (Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)	-	Upon completion of the pertinent APD/ROW construction, notify the Ute Tribe Energy & Minerals Dept. for a Tribal Technician to verify the Affidavit of Completion. Notify the BLM Environmental Scientist prior to moving on the drilling rig.
Spud Notice (Notify BLM Petroleum Engineer)	-	Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify BLM Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to running casing and cementing all casing strings to: ut vn opreport@blm.gov.
BOP & Related Equipment Tests (Notify BLM Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify BLM Petroleum Engineer)	-	Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

Page 2 of 7 Well: 14-11D-37 BTR

#### SURFACE USE PROGRAM CONDITIONS OF APPROVAL (COAs)

- Any deviation of submitted APD's, which includes BBCs surface use plan, and ROW
  applications the operator will notify the BLM in writing and will receive written
  authorization of any such change with appropriate authorization.
- The operator will implement "Safety and Emergency Plan." The operator's safety director will ensure its compliance.
- All operator employees and/or authorized personnel (sub-contractors) in the field will have approved applicable APD's, COAs, and ROW permits/authorizations on their person(s) during all phases of construction.
- All vehicular traffic, personnel movement, construction/restoration operations should be confined to the area examined and approved, and to the existing roadways and/or evaluated access routes.
- Wood shall be saved per the surface owner's recommendations piled up around well pad and along access roads. Wood from the locations can also be used for reclamation purposes.
- Corner #8 of the proposed well pad must be rounded and brought in 10 feet to lessen the amount of fill on that side of the pad.
- Topsoil must be moved to corner #3 by access road. This will bring the soils off of the downhill side, which is more prone to erosion.
- Production facilities will be painted Beetle Green on all locations to blend in with the surrounding habitat.
- Roads should be crown and ditched to divert any runoff from pooling the road surface itself, this also aids in lessening erosion on the road. Wing ditches can be installed to also aid in control runoff from affecting the proposed road.
- 6 inches of topsoil must be saved from the sites being disturbed for reclamation purposed only. Topsoil pile should be separated from the subsoil's and stored so topsoil is not affected by erosional forces. Piles higher than 8 feet are not recommended, because of the potential for greater erosion.
- The operator must conduct operations to minimize adverse effects to surface and subsurface resources, prevent unnecessary surface disturbance, and conform to currently available technology and practice.
- The operator must improve or maintain existing roads in a condition the same as or better than before operations began. The operator must provide any plans for improvement and/or maintenance of existing roads.

Page 3 of 7 Well: 14-11D-37 BTR 9/12/2011

Site reclamation would be accomplished for portions of the well pad not needed for production, within 6 months of completion, weather permitting. This also includes any roads, and pipeline areas that have been disturbed as well. Roads and pipeline disturbances can undergo reclamation immediately after the pipeline is installed and after the roads are built. Please contact surface owner or the BLM for possible seed mixes to use in the project area. Non-natives can be used; however lbs/ac must be kept low to minimize the chance of a monoculture.

Page 4 of 7 Well: 14-11D-37 BTR

9/12/2011

## DOWNHOLE PROGRAM CONDITIONS OF APPROVAL (COAs)

#### SITE SPECIFIC DOWNHOLE COAs:

- A CBL shall be run from TD to Surface on the production casing.
- Gamma Ray Log shall be run from TD to Surface.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

#### DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the
  daily drilling report. Components shall be operated and tested as required by Onshore Oil &
  Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be
  performed by a test pump with a chart recorder and NOT by the rig pumps. Test shall be
  reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- Cement baskets shall not be run on surface casing.
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water
  is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM
  Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of

Page 5 of 7 Well: 14-11D-37 BTR 9/12/2011

each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.

- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM,
   Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum
   Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- Please submit an electronic copy of all other logs run on this well in LAS format to UT\_VN\_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

Page 6 of 7 Well: 14-11D-37 BTR 9/12/2011

#### **OPERATING REQUIREMENT REMINDERS:**

 All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.

- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at www.ONRR.gov.
- Should the well be successfully completed for production, the BLM Vernal Field office must be
  notified when it is placed in a producing status. Such notification will be by written
  communication and must be received in this office by not later than the fifth business day
  following the date on which the well is placed on production. The notification shall provide, as a
  minimum, the following informational items:
  - o Operator name, address, and telephone number.
  - Well name and number.
  - Well location (¼¼, Sec., Twn, Rng, and P.M.).
  - Date well was placed in a producing status (date of first production for which royalty will be paid).
  - o The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
  - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
  - o Unit agreement and/or participating area name and number, if applicable.
  - o Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if

Page 7 of 7 Well: 14-11D-37 BTR 9/12/2011

performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field
  Office Petroleum Engineers will be provided with a date and time for the initial meter calibration
  and all future meter proving schedules. A copy of the meter calibration reports shall be
  submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API
  standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All
  measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted
  to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs
  first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be
  adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively
  sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering
  lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of
  a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval
  may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover
  equipment shall be removed from a well to be placed in a suspended status without prior
  approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30
  days, prior approval of the BLM Vernal Field Office shall be obtained and notification given
  before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

Sundry Number: 27300 API Well Number: 43013508620000

	STATE OF UTAH		FORM 9
ı	DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		5.LEASE DESIGNATION AND SERIAL NUMBER: 20G0005608
SUNDRY NOTICES AND REPORTS ON WELLS			6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	posals to drill new wells, significantly reenter plugged wells, or to drill horizon for such proposals.		
1. TYPE OF WELL Oil Well			8. WELL NAME and NUMBER: 14-11D-37 BTR
2. NAME OF OPERATOR: BILL BARRETT CORP			9. API NUMBER: 43013508620000
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300	, Denver, CO, 80202	PHONE NUMBER: 303 312-8164 Ext	9. FIELD and POOL or WILDCAT: UNDESIGNATED
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0335 FSL 1359 FWL			COUNTY: DUCHESNE
QTR/QTR, SECTION, TOWNSH	HIP, RANGE, MERIDIAN: 1 Township: 03.0S Range: 07.0W Merio	lian: U	STATE: UTAH
11. CHECI	K APPROPRIATE BOXES TO INDICAT	E NATURE OF NOTICE, R	EPORT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTIO	N
	ACIDIZE	ALTER CASING	CASING REPAIR
Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME
7/3/2012	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATION	ONS CONVERT WELL TYPE
SUBSEQUENT REPORT	DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION
Date of Work Completion:	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK
	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
SPUD REPORT Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL
DRILLING REPORT	WATER SHUTOFF	SI TA STATUS EXTENSION	✓ APD EXTENSION
Report Date:	WILDCAT WELL DETERMINATION	OTUER	OTHER:
		OTHER	OTHER:
	ng submitted to request an e		
Tills sulldly is bei	which expires on 7/11/20		Utah Division of
	ишен ехригее он т, т т, 20		Oil, Gas and Mining
			Date: July 11, 2012
			00 m on 1
			By:
NAME (PLEASE PRINT)	PHONE NUMB		
Megan Finnegan	303 299-9949	Permit Analyst	
SIGNATURE N/A		<b>DATE</b> 7/3/2012	

Sundry Number: 27300 API Well Number: 43013508620000



#### The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

**Electronic Permitting System - Sundry Notices** 

#### Request for Permit Extension Validation Well Number 43013508620000

API: 43013508620000 Well Name: 14-11D-37 BTR

Location: 0335 FSL 1359 FWL QTR SESW SEC 11 TWNP 030S RNG 070W MER U

Company Permit Issued to: BILL BARRETT CORP

Date Original Permit Issued: 7/11/2011

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

• If located on private land, has the ownership changed, if so, has the surface agreement been updated?  Yes  No
Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?     Yes  No
• Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?  Yes No
• Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location?  Yes No
• Has the approved source of water for drilling changed?   Yes  No
<ul> <li>Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?</li> <li>Yes</li> <li>No</li> </ul>
• Is bonding still in place, which covers this proposed well?   Yes   No
nature: Megan Finnegan Date: 7/3/2012

Signature: Megan Finnegan **Date:** 7/3/2012

Title: Permit Analyst Representing: BILL BARRETT CORP

Sundry Number: 39070 API Well Number: 43013508620000

		FORM 9		
DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING			5.LEASE DESIGNATION AND SERIAL NUMBER: 2OG0005608	
SUNDRY NOTICES AND REPORTS ON WELLS			6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
	posals to drill new wells, significantly dee reenter plugged wells, or to drill horizonta n for such proposals.		7.UNIT or CA AGREEMENT NAME:	
1. TYPE OF WELL Oil Well			8. WELL NAME and NUMBER: 14-11D-37 BTR	
2. NAME OF OPERATOR: BILL BARRETT CORP			9. API NUMBER: 43013508620000	
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300		HONE NUMBER: 3 312-8134 Ext	9. FIELD and POOL or WILDCAT: UNDESIGNATED	
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0335 FSL 1359 FWL			COUNTY: DUCHESNE	
QTR/QTR, SECTION, TOWNSH Qtr/Qtr: SESW Section: 1	IIP, RANGE, MERIDIAN: 1 Township: 03.0S Range: 07.0W Meridiar	n: U	STATE: UTAH	
11. CHECI	K APPROPRIATE BOXES TO INDICATE I	NATURE OF NOTICE, REPOF	RT, OR OTHER DATA	
TYPE OF SUBMISSION		TYPE OF ACTION		
	ACIDIZE	ALTER CASING	CASING REPAIR	
Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME	
7/1/2014	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE	
SUBSEQUENT REPORT	DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION	
Date of Work Completion:	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK	
	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION	
SPUD REPORT  Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON	
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL	
DRILLING REPORT	WATER SHUTOFF	SI TA STATUS EXTENSION	✓ APD EXTENSION	
Report Date:	WILDCAT WELL DETERMINATION	OTHER	OTHER:	
40 DECODINE DRODOCED OR			<u>'</u>	
	COMPLETED OPERATIONS. Clearly show all properties a one year extension for		Approved by the	
220 1.0.003 10.	queste a erre year externeren re	i ino odojoot / ii D	<b>Utah Division of</b>	
			Oil, Gas and Mining	
			Date: June 19, 2013	
			By: Basyll	
NAME (PLEASE PRINT)	PHONE NUMBER	TITLE		
Venessa Langmacher	303 312-8172	Senior Permit Analyst		
SIGNATURE N/A		<b>DATE</b> 6/17/2013		

Sundry Number: 39070 API Well Number: 43013508620000



#### The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

**Electronic Permitting System - Sundry Notices** 

#### Request for Permit Extension Validation Well Number 43013508620000

API: 43013508620000 Well Name: 14-11D-37 BTR

Location: 0335 FSL 1359 FWL QTR SESW SEC 11 TWNP 030S RNG 070W MER U

Company Permit Issued to: BILL BARRETT CORP

Date Original Permit Issued: 7/11/2011

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• If located on private land, has the ownership changed, if so, has the surface agreement been updated?  Yes  No
• Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?  Yes No
<ul> <li>Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?</li> <li>Yes</li> <li>No</li> </ul>
• Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? ( Yes ( No
• Has the approved source of water for drilling changed? 🔘 Yes 🍺 No
• Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?   Yes  No
• Is bonding still in place, which covers this proposed well?   Yes   No
nature: Venessa Langmacher Date: 6/17/2013

Sig

Title: Senior Permit Analyst Representing: BILL BARRETT CORP

#### ILLULIVLU

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SEP 0 5 2013

FORM APPROVED OMB NO. 1004-0135 Expires: July 31, 2010

Expires: July 31, 201

5. Lease Serial No.
20G0005608

SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill or to re-enteral abandoned well. Use form 3160-3 (APD) for such proposals.

6. If Indian, Allottee or Tribe Name
UINTAH AND OURAY

			) OINTAITAND	JUNAT		
SUBMIT IN TRIPLICATE - Other instructions on reverse side.			7. If Unit or CA/Agre	ement, Name and/or No.		
1. Type of Well ☐ Gas Well ☐ Other			8. Well Name and No. 14-11D-37 BTR			
2. Name of Operator BILL BARRETT CORPORATI	Contact: ON E-Mail: vlangmach	VENESSA er@billbarre	LANGMACHER ttcorp.com		9. API Well No. 43-013-50862-0	00-X1
3a. Address 1099 18TH STREET SUITE 2 DENVER, CO 80202	300	3b. Phone 1 Ph: 303-3 Fx: 303-2	No. (include area cod 312-8172 91-0420	e)	10. Field and Pool, or CEDAR RIM	Exploratory
4. Location of Well (Footage, Sec., T	., R., M., or Survey Description,	)			11. County or Parish,	and State
Sec 11 T3S R7W SESW 335FSL 1359FWL 40.227731 N Lat, 110.647539 W Lon					DUCHESNE CO	
12. CHECK APPR	ROPRIATE BOX(ES) TO	INDICAT	E NATURE OF	NOTICE, RE	EPORT, OR OTHE	R DATA
TYPE OF SUBMISSION			ТҮРЕ О	F ACTION		
☑ Notice of Intent	☐ Acidize	□ De	epen	☐ Producti	on (Start/Resume)	☐ Water Shut-Off
	☐ Alter Casing	☐ Fr	acture Treat	☐ Reclama	•	☐ Well Integrity
☐ Subsequent Report	Casing Repair	□ Ne	w Construction	☐ Recomp	lete	Other
☐ Final Abandonment Notice	☐ Change Plans	🗖 Plı	ig and Abandon	☐ Tempora	arily Abandon	Change to Original A
13. Describe Proposed or Completed Ope If the proposal is to deepen directional Attach the Bond under which the worl	☐ Convert to Injection		ıg Back	■ Water D	isposal	
Attach the Bond under which the work will be performed or provide the Bond No. following completion of the involved operations. If the operation results in a mult testing has been completed. Final Abandonment Notices shall be filed only after a determined that the site is ready for final inspection.)  BBC hereby requests a 2 year extension on the subject APD.		Pole completion or reconstruction of requirements, including the completion of reconstruction of the control of	ompletion in a noting reclamation	VERNAL F ENG. PET. PET. RECL.	FIELD OFFICE	
Electronic Submission #218986 verified by the BLM Well information System For BILL BARRETT CORPORATION, sent to the Vernal Committed to AFMSS for processing by LE\$LIE BUHLER on 09/10/2013 (13LBB0813SE)						
Name (Printed/Typed) VENESSA LANGMACHER Title SENIOR PERMIT A					_	
Signature (Electronic Submission) Date 09/04/2013						
	THIS SPACE FOR	R FEDERA	L OR STATE	OFFICE US	E	
Approved By  Conditions of approved, if any, are attached, certify that the applicant holds legal or equit which would entitle the applicant to conduct	able title to those rights in the s	ot warrant or ubject lease	Title L	ande & Mir	Field Manager Neral Resources FIELD OFFICE	QCat 2 9 2013
Title 18 U.S.C. Section 1001 and Title 43 U. States any false, fictitious or fraudulent sta	S.C. Section 1212, make it a critements or representations as to	ime for any pe any matter w	erson knowingly and ithin its jurisdiction.	willfully to make	e to any department or ag	gency of the United

#### Revisions to Operator-Submitted EC Data for Sundry Notice #218986

**Operator Submitted** 

**BLM Revised (AFMSS)** 

Sundry Type:

OTHER NOI

2OG0005608

2OG0005608

APDCH NOI

Agreement:

Lease:

Operator:

BILL BARRETT CORPORATION 1099 18TH STREET SUITE 2300 DENVER, CO 80202 Ph: 303-293-9100

BILL BARRETT CORPORATION 1099 18TH STREET SUITE 2300 DENVER, CO 80202 Ph: 303.312.8546

Admin Contact:

VENESSA LANGMACHER SR PERMIT ANALYST E-Mail: vlangmacher@billbarrettcorp.com Cell: 720-402-7540 Ph: 303-312-8172 Fx: 303-291-0420

Tech Contact:

VENESSA LANGMACHER SR PERMIT ANALYST

SR PERMIT ANALTST E-Mail: vlangmacher@billbarrettcorp.com Cell: 720-402-7540 Ph: 303-312-8172 Fx: 303-291-0420

Location:

State:

County:

UT DUCHESNE CEDAR RIM

Field/Pool: Well/Facility:

14-11D-37 BTR Sec 11 T3S R7W Mer UBM SESW 335FSL 1359FWL

VENESSA LANGMACHER SENIOR PERMIT ANALYST

E-Mail: vlangmacher@billbarrettcorp.com Cell: 720-402-7540 Ph: 303-312-8172 Fx: 303-291-0420

VENESSA LANGMACHER SENIOR PERMIT ANALYST E-Mail: vlangmacher@billbarrettcorp.com Cell: 720-402-7540 Ph: 303-312-8172

Fx: 303-291-0420

UT DUCHESNE

CEDAR RIM

14-11D-37 BTR Sec 11 T3S R7W SESW 335FSL 1359FWL 40.227731 N Lat, 110.647539 W Lon

## **CONDITIONS OF APPROVAL**

## **Bill Barrett Corporation**

## **Notice of Intent APD Extension**

Lease:

1420H625608

Well:

14-11D-37 BTR

Location:

SESW Sec 11-T3S-R7W

An extension for the referenced APD is granted with the following conditions:

- 1. The extension and APD shall expire on 10/06/2015.
- 2. No other extension shall be granted.

If you have any other questions concerning this matter, please contact Robin L Hansen of this office at (435) 781-2777

Sundry Number: 52225 API Well Number: 43013508620000

	STATE OF UTAH		FORM 9	
	DEPARTMENT OF NATURAL RESOURCE	5.LEASE DESIGNATION AND SERIAL NUMBER:		
	DIVISION OF OIL, GAS, AND MIN	20G0005608		
SUNDRY NOTICES AND REPORTS ON WELLS			6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
	oposals to drill new wells, significantly reenter plugged wells, or to drill horizo n for such proposals.		7.UNIT or CA AGREEMENT NAME:	
1. TYPE OF WELL			8. WELL NAME and NUMBER:	
Oil Well			14-11D-37 BTR	
2. NAME OF OPERATOR: BILL BARRETT CORP			9. API NUMBER: 43013508620000	
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300	, Denver, CO, 80202	<b>PHONE NUMBER:</b> 303 312-8134 Ext	9. FIELD and POOL or WILDCAT: UNDESIGNATED	
4. LOCATION OF WELL FOOTAGES AT SURFACE:			COUNTY: DUCHESNE	
0335 FSL 1359 FWL QTR/QTR, SECTION, TOWNSI Qtr/Qtr: SESW Section: 1	HIP, RANGE, MERIDIAN: 11 Township: 03.0S Range: 07.0W Meri	dian: U	STATE: UTAH	
11. CHEC	K APPROPRIATE BOXES TO INDICA	TE NATURE OF NOTICE, REPOR	RT, OR OTHER DATA	
5. 120			,	
TYPE OF SUBMISSION		TYPE OF ACTION		
	ACIDIZE	ALTER CASING	CASING REPAIR	
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME	
7/11/2015	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE	
	_			
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT	☐ NEW CONSTRUCTION	
	OPERATOR CHANGE	PLUG AND ABANDON	L PLUG BACK	
SPUD REPORT	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION	
Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON	
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL	
DRILLING REPORT	WATER SHUTOFF	SI TA STATUS EXTENSION	✓ APD EXTENSION	
Report Date:	WILDCAT WELL DETERMINATION	OTHER	OTHER:	
/		U. d.	<u>'</u>	
I .	COMPLETED OPERATIONS. Clearly show reby request a one year exter		Approved by the	
DDC Hei	eby request a one year exter	ISIOII IOI AFD	Utah Division of	
			Oil, Gas and Mining June 17, 2014	
			Date:	
			By: Dally Chill	
NAME (PLEASE PRINT)	PHONE NUMB	BER TITLE		
Christina Hirtler	303 312-8597	Administrative Assistant		
SIGNATURE N/A		<b>DATE</b> 6/16/2014		

Sundry Number: 52225 API Well Number: 43013508620000



#### The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

**Electronic Permitting System - Sundry Notices** 

#### Request for Permit Extension Validation Well Number 43013508620000

**API:** 43013508620000 **Well Name:** 14-11D-37 BTR

Location: 0335 FSL 1359 FWL QTR SESW SEC 11 TWNP 030S RNG 070W MER U

Company Permit Issued to: BILL BARRETT CORP

Date Original Permit Issued: 7/11/2011

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

• If located on private land, has the ownership changed, if so, has the surface agreement been updated?  Yes  No
Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?     Yes      No
• Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?  Yes No
• Have there been any changes to the access route including ownership, or rightof- way, which could affect th proposed location? ( Yes ( No
• Has the approved source of water for drilling changed?   Yes  No
• Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?  Yes No
• Is bonding still in place, which covers this proposed well? 🌘 Yes 💭 No
natural Christina Hirtler Data: 6/16/2014

Signature: Christina Hirtler Date: 6/16/2014

Title: Permit Analyst Representing: BILL BARRETT CORP

Sundry Number: 63616 API Well Number: 43013508620000

	STATE OF UTAH		FORM 9	
ı	DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		5.LEASE DESIGNATION AND SERIAL NUMBER: 20G0005608	
SUNDRY NOTICES AND REPORTS ON WELLS			6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
	pposals to drill new wells, significantly deep reenter plugged wells, or to drill horizontal n for such proposals.		7.UNIT or CA AGREEMENT NAME:	
1. TYPE OF WELL Oil Well			8. WELL NAME and NUMBER: 14-11D-37 BTR	
2. NAME OF OPERATOR: BILL BARRETT CORP			9. API NUMBER: 43013508620000	
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300		DNE NUMBER: 312-8134 Ext	9. FIELD and POOL or WILDCAT: UNDESIGNATED	
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0335 FSL 1359 FWL			COUNTY: DUCHESNE	
QTR/QTR, SECTION, TOWNSH	HIP, RANGE, MERIDIAN: I1 Township: 03.0S Range: 07.0W Meridian:	U	STATE: UTAH	
11. CHECI	K APPROPRIATE BOXES TO INDICATE N	ATURE OF NOTICE, REPOR	RT, OR OTHER DATA	
TYPE OF SUBMISSION		TYPE OF ACTION		
~	ACIDIZE	ALTER CASING	CASING REPAIR	
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME	
7/11/2015	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE	
SUBSEQUENT REPORT	DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION	
Date of Work Completion:		PLUG AND ABANDON	PLUG BACK	
			RECOMPLETE DIFFERENT FORMATION	
SPUD REPORT		RECLAMATION OF WELL SITE		
Date of Spud:		SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON	
	L TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL	
DRILLING REPORT Report Date:	WATER SHUTOFF	SI TA STATUS EXTENSION	✓ APD EXTENSION	
	WILDCAT WELL DETERMINATION	OTHER	OTHER:	
l .	COMPLETED OPERATIONS. Clearly show all pe		lepths, volumes, etc.	
BBC hereby red	quest a one year extension for the	his APD through	Approved by the	
	7/11/2016		Ulume 108 is 2015 of Oil, Gas and Mining	
			on, cas and rinning	
			Date:	
			By: Bacylll	
			353	
NAME (DI EASE DRINT)	DLIONE NUMBER	TITLE		
NAME (PLEASE PRINT) Brady Riley	<b>PHONE NUMBER</b> 303 312-8115	Permit Analyst		
SIGNATURE		DATE		
N/A		6/1/2015		

Sundry Number: 63616 API Well Number: 43013508620000



#### The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

**Electronic Permitting System - Sundry Notices** 

#### Request for Permit Extension Validation Well Number 43013508620000

API: 43013508620000 Well Name: 14-11D-37 BTR

Location: 0335 FSL 1359 FWL QTR SESW SEC 11 TWNP 030S RNG 070W MER U

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Date Original Permit Issued: 7/11/2011

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Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?     Yes      No
• Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?  Yes No
• Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location?  Yes No
• Has the approved source of water for drilling changed?   Yes  No
<ul> <li>Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?</li> <li>Yes</li> <li>No</li> </ul>
• Is bonding still in place, which covers this proposed well?   Yes   No
nature: Brady Riley Date: 6/1/2015

**Signature:** Brady Riley

Title: Permit Analyst Representing: BILL BARRETT CORP



## **United States Department of the Interior**

BUREAU OF LAND MANAGEMENT
Green River District
Vernal Field Office
170 South 500 East
Vernal, UT 84078
http://www.blm.gov/ut/st/en/fo/vernal.html



NOV 04 2015

IN REPLY REFER TO: 3160 (UTG011)

Tracey Falling
Bill Barrett Corporation
1099 18<sup>th</sup> Street, Suite 2300
Denver, CO 80202

RECEIVED
NOV 1 0 2015

DIV. OF OIL, GAS & MINING

Dear Tracey:

The referenced Applications for Permit to Drill (APD) have expired. According to our records, no known activity has transpired at the approved location. In view of the foregoing, this office is notifying you that the approval of the referenced applications has expired. If you intend to drill at these locations in the future, a new Application for Permit to Drill must be submitted.

43 Aliquot Date Exp'd Lease Well Sec., T., R. Date Rec'd 14-20-H62-5608 | 14-11D-37 BTR **SESW** Sec. 11-T3S-R7W 6/28/2011 10/6/2015 50862 Sec. 11-T3S-R7W 14-20-H62-5608 | 16-11-37 BTR SESE 6/21/2011 10/24/2015 50855 14-20-H62-5608 | 5-22D-37 BTR **SWNW** Sec. 22-T3S-R7W 6/17/2011 10/3/2015 50848 **SESW** 14-20-H62-5608 14-22D-37 BTR Sec. 22-T3S-R7W 6/17/2011 10/3/2015 50850 14-20-H62-5608 | 16-22D-37 BTR SESE Sec. 22-T3S-R7W 5/24/2011 10/4/2015 50779 14-20-H62-5608 | 5-23D-37 BTR 6/17/2011 50845 **SWNW** Sec. 23-T3S-R7W 10/3/2015 14-20-H62-5608 | 14-23D-37 BTR **SESW** Sec. 23-T3S-R7W 6/17/2011 10/3/2015 50851 14-20-H62-6440 5-7D-36 BTR Sec. 7-T3S-R6W 50860 NESW 7/1/2011 10/6/2015 14-20-H62-6440 7-7D-36 BTR **SWNE** Sec. 7-T3S-R6W 8/8/2011 10/6/2015 50916 14-20-H62-6422 7-8D-36 BTR 50914 **SWNE** Sec. 8-T3S-R6W 8/2/2011 10/3/2015 14-20-H62-6482 16-21D-37 BTR **SESE** Sec. 21-T3S-R7W 5/20/2011 10/4/2015 50758

This office requires a letter confirming that no surface disturbance has been made for these drill sites. Any surface disturbance associated with the approved location of these wells is to be rehabilitated. A schedule for this rehabilitation must be submitted to this office. Your cooperation in this matter is appreciated.

If you have any questions regarding this matter, please contact Robin R. Hansen at (435) 781-3428.

Sincerely,

/s/ Jerry Kenczka

Jerry Kenczka Assistant Field Manager Lands & Mineral Resources

**UDOGM** CC:

BIA

Well File I&E Asst. bcc:

Sundry Number: 70860 API Well Number: 43013508620000

	STATE OF UTAH		FORM 9
ι	DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	3	5.LEASE DESIGNATION AND SERIAL NUMBER: 20G0005608
SUNDR	Y NOTICES AND REPORTS ON	WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	posals to drill new wells, significantly deer reenter plugged wells, or to drill horizontal n for such proposals.		7.UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well			8. WELL NAME and NUMBER: 14-11D-37 BTR
2. NAME OF OPERATOR: BILL BARRETT CORP			9. API NUMBER: 43013508620000
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300		DNE NUMBER: 312-8134 Ext	9. FIELD and POOL or WILDCAT: UNDESIGNATED
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0335 FSL 1359 FWL			COUNTY: DUCHESNE
QTR/QTR, SECTION, TOWNSH	HP, RANGE, MERIDIAN: 1 Township: 03.0S Range: 07.0W Meridian:	· U	STATE: UTAH
11. CHECK	K APPROPRIATE BOXES TO INDICATE N	IATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
	ACIDIZE	ALTER CASING	CASING REPAIR
Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME
7/11/2017	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT	DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION
Date of Work Completion:	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK
		RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
SPUD REPORT Date of Spud:			
Julio di Opular		SIDETRACK TO REPAIR WELL	L TEMPORARY ABANDON
		VENT OR FLARE	WATER DISPOSAL
DRILLING REPORT Report Date:		SI TA STATUS EXTENSION	✓ APD EXTENSION
	WILDCAT WELL DETERMINATION	OTHER	OTHER:
	completed operations. Clearly show all persisting a one year permit extens 7/11/2017.		Approved by the UtahilD05is2016f
			Oil, Gas and Mining
			Date:
			By: Locyll
NAME (PLEASE PRINT) Brady Riley	<b>PHONE NUMBER</b> 303 312-8115	TITLE Permit Analyst	
SIGNATURE		DATE	
N/A		4/4/2016	

Sundry Number: 70860 API Well Number: 43013508620000



#### The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

**Electronic Permitting System - Sundry Notices** 

#### Request for Permit Extension Validation Well Number 43013508620000

API: 43013508620000 Well Name: 14-11D-37 BTR

Location: 0335 FSL 1359 FWL QTR SESW SEC 11 TWNP 030S RNG 070W MER U

Company Permit Issued to: BILL BARRETT CORP

Date Original Permit Issued: 7/11/2011

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

• If located on private land, has the ownership changed, if so, has the surface agreement been updated?  Yes  No
Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?     Yes      No
• Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?  Yes No
• Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location?  Yes No
• Has the approved source of water for drilling changed?   Yes  No
<ul> <li>Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?</li> <li>Yes</li> <li>No</li> </ul>
• Is bonding still in place, which covers this proposed well?   Yes   No
nature: Brady Riley Date: 4/4/2016

**Signature:** Brady Riley

Title: Permit Analyst Representing: BILL BARRETT CORP

Form 3160-3 (August 2007)

DEC 08 2015

FORM APPROVED OMB No. 1004-0136 Expires July 31, 2010

# UNITED STATES DEPARTMENT OF THE INTERIOR BURGALLOG LAND MANAGEMENT

OMB No. 1004-0136 Expires July 31, 2010

BUREAU OF LAND N	MANAGEMENT BLM VERNAL UTAH	5. Lease Serial No. 1420H625608	
APPLICATION FOR PERMIT	O DRILL OR REENTER	6. If Indian, Allottee or Tribe UINTAH AND OURA	
ia. Type of Work: DRILL REENTER		7. If Unit or CA Agreement,	Name and No.
1b. Type of Well: 🖸 Oil Well 📋 Gas Well 📋 Oth	er ⊠ Single Zone ☐ Multiple Zone	8. Lease Name and Well No. 14-11D-37 BTR	
	BRADY RILEY	9. API Well No. 4301350	× 4 2
3a. Address 1099 18TH STREET SUITE 2300 DENVER, CO 80202	3b. Phone No. (include area code) Ph: 303-312-8115	10. Field and Pool, or Explor CEDAR RIM	ratory
4. Location of Well (Report location clearly and in accordance	nce with any State requirements.*)	11. Sec., T., R., M., or Blk. a	and Survey or Area
At surface SESW 335FSL 1359FWL 4 At proposed prod. zone SESW 810FSL 1871FWL 4	10.227731 N Lat, 110.647539 W Lon 10.229039 N Lat, 110.645706 W Lon	Sec 11 T3S R7W Me SME: FEE	r UBM
14. Distance in miles and direction from nearest town or post of 16.9 MILES NORTHWEST OF DUCHESNE, UT	office*	12. County or Parish DUCHESNE	13. State UT
<ol> <li>Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)</li> <li>LEASE LINE</li> </ol>	16. No. of Acres in Lease 52428.45	17. Spacing Unit dedicated t	o this well
<ol> <li>Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.</li> <li>3053 FEET TO NEAREST PROPOSED WELL</li> </ol>	19. Proposed Depth 11999 MD 11936 TVD	20. BLM/BIA Bond No. on : LPM8874725	file
21. Elevations (Show whether DF, KB, RT, GL, etc. 6848 GL	22. Approximate date work will start 12/01/2017	23. Estimated duration 60 DAYS (D&C)	
	24. Attachments		
The following, completed in accordance with the requirements of	f Onshore Oil and Gas Order No. 1, shall be attached to the	nis form:	
<ol> <li>Well plat certified by a registered surveyor.</li> <li>A Drilling Plan.</li> <li>A Surface Use Plan (if the location is on National Forest Syst SUPO shall be filed with the appropriate Forest Service Off</li> </ol>	Item 20 above).  S. Operator certification	ns unless covered by an existing	`
25. Signature (Electronic Submission)	Name (Printed/Typed) BRADY RILEY Ph: 303-312-8115		Date 12/07/2015
Title PERMIT ANALYST			
Approved by (Signature)	Name (Printed/Typed)  Jerry Kencz	ka	APR 08 2016
Title Assistant Field Manager Lands & Mineral Resources	Office VERNAL FIELD OFFICE		

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Additional Operator Remarks (see next page)

Electronic Submission #325682 verified by the BLM Well Information System
For BILL BARRETT CORPORATION, sent to the Vernal
NOTICE OF APPROVAL mitted to AFMSS for processing by STEVE HIRSCHI on 12/10/2015 (16STH0007ARECEIVED

MAY 06 2016



#### UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT VERNAL FIELD OFFICE**

**VERNAL, UT 84078** 

(435) 781-4400



#### CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company: Well No:

API No:

**BILL BARRETT CORPORATION** 

43-013-50862

14-11D-37 BTR

Location:

SESW, Sec. 11, T3S, R7W

Lease No:

14-20-H62-5608

Agreement:

**OFFICE NUMBER:** 

(435) 781-4400

**OFFICE FAX NUMBER:** 

(435) 781-3420

#### A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR FIELD REPRESENTATIVE TO INSURE COMPLIANCE

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.

#### NOTIFICATION REQUIREMENTS

Construction Activity (Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)

Construction Completion (Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)

Spud Notice (Notify BLM Petroleum Engineer)

Casing String & Cementing (Notify BLM Supv. Petroleum Tech.)

**BOP & Related Equipment Tests** (Notify BLM Supv. Petroleum Tech.)

First Production Notice (Notify BLM Petroleum Engineer)

- The Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist shall be notified at least 48 hours in advance of any construction activity. The Ute Tribal office is open Monday through Thursday.
- Upon completion of the pertinent APD/ROW construction, notify the Ute Tribe Energy & Minerals Dept. for a Tribal Technician to verify the Affidavit of Completion. Notify the BLM Environmental Scientist prior to moving on the drilling rig.
- Twenty-Four (24) hours prior to spudding the well.
- Twenty-Four (24) hours prior to running casing and cementing all casing strings to:blm ut vn opreport@blm.gov.
- Twenty-Four (24) hours prior to initiating pressure tests.
- Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

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## SURFACE USE PROGRAM CONDITIONS OF APPROVAL (COAs)

Company/Operator: Bill Barrett Corporation (BBC) Well

Name & Number: 14-11D-37 BTR

Surface Ownership:

Private (VRD, LLC)

Lease Number:

1420H625608

Location(s):

SE/SW Section 11 T3S, R7W, Mer. UBM

- The conditions of approval, as set forth by the surface owners and/or agencies, shall be adhered to
- Tier II or better drilling rig engines
- Stationary internal combustion engine standard of 2g NOx/bhp-hr for engines <300HP and 1g NOx/bhp-hr for engines >300HP
- Low bleed or no bleed pneumatic pump valves
- Dehydrator VOC emission controls to +95% efficiency
- Tank VOC emission controls to +95% efficiency
- The proponent shall comply with all applicable air quality regulations promulgated by the Utah Division of Air Quality, and/or the Environmental Protection Agency

Page 3 of 6 Well: 14-11D-37 BTR 3/18/2016

## DOWNHOLE PROGRAM CONDITIONS OF APPROVAL (COAs)

#### SITE SPECIFIC DOWNHOLE COAs:

Uintah and Ouray: 7-17D-46BTR, 14-11D-37 BTR

• To effectively protect useable waster, cement for the long string is required to be brought to 200 ft. above the surface casing shoe.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

#### DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the
  daily drilling report. Components shall be operated and tested as required by Onshore Oil &
  Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be
  performed by a test pump with a chart recorder and <u>NOT</u> by the rig pumps. Test shall be
  reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- Cement baskets shall not be run on surface casing.
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water
  is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM
  Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of

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each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.

- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM,
   Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum
   Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- Please submit an electronic copy of all other logs run on this well by CD (compact disc). This submission will supersede the requirement for submittal of paper logs to the BLM.
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

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#### **OPERATING REQUIREMENT REMINDERS:**

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at <a href="https://www.ONRR.gov">www.ONRR.gov</a>.
- Should the well be successfully completed for production, the BLM Vernal Field office must be
  notified when it is placed in a producing status. Such notification will be by written
  communication and must be received in this office by not later than the fifth business day
  following the date on which the well is placed on production. The notification shall provide, as a
  minimum, the following informational items:
  - o Operator name, address, and telephone number.
  - Well name and number.
  - o Well location (1/41/4, Sec., Twn, Rng, and P.M.).
  - Date well was placed in a producing status (date of first production for which royalty will be paid).
  - o The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
  - o The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
  - Unit agreement and/or participating area name and number, if applicable.
  - o Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if

Page 6 of 6 Well: 14-11D-37 BTR

3/18/2016

performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field
  Office Petroleum Engineers will be provided with a date and time for the initial meter calibration
  and all future meter proving schedules. A copy of the meter calibration reports shall be
  submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API
  standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All
  measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted
  to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs
  first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be
  adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively
  sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering
  lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of
  a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval
  may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover
  equipment shall be removed from a well to be placed in a suspended status without prior
  approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30
  days, prior approval of the BLM Vernal Field Office shall be obtained and notification given
  before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

Division of Oil, Gas and Mining

Operator Change/Name Change Worksheet-for State use only

Effective Date:

11/1/2016

FORMER OPERATOR:	NEW OPERATOR:
Bill Barrett Corporation	Rig II, LLC
1099 18th Street, Suite 2300	1582 West 2600 South
Denver, CO 80202	Woods Cross, UT 84087
CA Number(s):	Unit(s):

#### WELL INFORMATION:

Well Name	Sec	TWN	RNG	API	Entity	Mineral	Surface	Type	Status
See Attached List									

#### **OPERATOR CHANGES DOCUMENTATION:**

1. Sundry or legal documentation was received from the **FORMER** operator on:

10/21/2016

2. Sundry or legal documentation was received from the NEW operator on:

10/21/2016

3. New operator Division of Corporations Business Number:

8256968-0160

#### **REVIEW:**

1. Surface Agreement Sundry from NEW operator on Fee Surface wells received on:

N/A

2. Receipt of Acceptance of Drilling Procedures for APD on:

10/21/2016

3. Reports current for Production/Disposition & Sundries:

11/2/2016

4. OPS/SI/TA well(s) reviewed for full cost bonding:

11/3/2016

5. UIC5 on all disposal/injection/storage well(s) approved on:

11/3/2016

6. Surface Facility(s) included in operator change:

None

7. Inspections of PA state/fee well sites complete on (only upon operators request):

11/3/2016

#### **NEW OPERATOR BOND VERIFICATION:**

1. Federal well(s) covered by Bond Number:

UTB000712

2. Indian well(s) covered by Bond Number:

LPM 922467

3.State/fee well(s) covered by Bond Number(s):

9219529

#### **DATA ENTRY:**

1. Well(s) update in the OGIS on:

11/7/2016

2. Entity Number(s) updated in OGIS on:

11/7/2016

3. Unit(s) operator number update in OGIS on:

N/A

4. Surface Facilities update in OGIS on:

N/A

5. State/Fee well(s) attached to bond(s) in RBDMS on:

11/7/2016

6. Surface Facilities update in RBDMS on:

N/A

#### **COMMENTS:**

Well Name	Sec	TWN	RNG	API Number	Entity	Mineral	Surface	Туре	Status
SWD 9-36 BTR	9	0308	060W	4301350646	18077	Indian	Fee	WD	Α
16-6D-46 BTR SWD	6	040S	060W	4301350781	18327	Indian	Fee	WD	Α
6-32-36 BTR SWD	32	030S	060W	4301350921	18329	Indian	Fee	WD	Α
LC TRIBAL 8-26D-47	26	040S	070W	4301334024		Indian	Indian	OW	APD
16-21D-37 BTR	21	030S	070W	4301350758		Indian	Fee	OW	APD
14-11D-37 BTR	11	030S	070W	4301350862		Indian	Fee	OW	APD
7-17D-46 BTR	17	040\$	060W	4301350883		Indian	Indian	OW	APD
14-12D-37 BTR	12	030S	070W	4301350894		Indian	Fee	OW	APD
1-18D-36 BTR	18	030S	060W	4301350922		Indian	Fee	OW	APD
13-2D-45 BTR	2	040S	050W	4301350931		Indian	Indian	OW	APD
5H-16-46 BTR	16	040S	060W	4301350992		Indian	Indian	OW	APD
9H-17-45 BTR	17	040S	050W	4301351098		Indian	Indian	OW	APD
13H-8-46 BTR UB	8	040S	060W	4301351124		Indian	Indian	OW	APD
BH-9-46 BTR	9	040S	060W	4301351140		Indian	Indian	ow	APD
_C TRIBAL 7-31D-37	31	030S	070W	4301351147		Indian	Fee	ow	APD
14-16D-45 BTR	16	040S	050W	4301351178		Indian	Indian	ow	APD
16-19D-37 BTR	19	030S	070W	4301351179		Indian	Fee	OW	APD
6-2D-45 BTR	2	040S	050W	4301351234		Indian	Indian	ow	APD
2-2D-45 BTR	2	040S	050W	4301351235		Indian	Indian	ow	APD
10-26-35 BTR	26	030S	050W	4301351248		Indian	Fee	OW	APD
C TRIBAL 1H-33-46	33	040S	060W	4301351257		Indian	Fee	ow	APD
_C TRIBAL 9-25D-46	25	040S	060W	4301351276		Indian	Indian	ow	APD
C TRIBAL 8H-30-45	30	040S	050W	4301351277	(8.7)	Indian	Indian	OW	APD
_C TRIBAL 16H-30-45	30	040S	050W	4301351279		Indian	Indian	OW	APD
_C TRIBAL 13-30D-45	30	040S	050W	4301351282		Indian	Indian	ow	APD
_C TRIBAL 16H-36-46	36	040S	060W	4301351291		Indian	Indian	OW	APD
C TRIBAL 13H-30-46	30	040S	060W	4301351321		Indian	Indian	OW	APD
C TRIBAL 13H-31-46	31	040S	060W	4301351326		Indian	Indian	OW	APD
_C TRIBAL 16-31D-46	31	040S	060W	4301351328		Indian	Indian	OW	APD
C TRIBAL 5H-26-47	26	040S	070W	4301351337		Indian	Indian	OW	APD
_C TRIBAL 5H-19-45	20	040S	050W	4301351349		Indian	Indian	OW	APD
C TRIBAL 16-36D-47	36	040S	070W	4301351363		Indian	Indian	OW	APD
15-4D-47 BTR	4	040S	070W	4301351377		Indian	Fee	OW	APD
16-23D-46 LC TRIBAL	23	040S	060W	4301351396		Indian	Fee	ow	APD
15-2D-36 BTR	2	030S	060W	4301351419		Indian	Fee	OW	APD
16-23D-37 BTR	23	030S	070W	4301351420	1	Indian	Fee	ow	APD
11-9D-47 BTR	9	040S	070W	4301351422		Indian	Fee	OW	APD
15-13D-47 BTR	13	040S	070W	4301351424		Indian	Indian	OW	APD
_C TRIBAL 15-19D-46	19	040S	060W	4301351426		Indian	Indian	OW	APD
16-13D-45 BTR	13	040S	050W	4301351428		Indian	Indian	OW	APD

14-12D-45 BTR	12	040S	050W	4301351444	Indian	Indian	OW	APD
16-14D-45 BTR	14	040S	050W	4301351445	Indian	Indian	OW	APD
5-13D-45 BTR	13	040S	050W	4301351446	Indian	Indian	OW	APD
LC TRIBAL 16-26D-46	26	040S	060W	4301351450	Indian	State	OW	APD
LC TRIBAL 10-20D-40	34	0408	060W	4301351451				
16-12D-45 BTR	12	040S	050W	4301351451	Indian Indian	State Indian	OW	APD
8-12D-45 BTR	12	040S	050VV	4301351452			OW	APD
LC TRIBAL 1-35D-46	35	040S	060W		Indian	Indian	OW	APD
16-25D-37 BTR	<del></del>	0405	070W	4301351454	Indian	Fee	OW	APD
LC TRIBAL 13H-29-46	25			4301351455	Indian	Fee	OW	APD
	28	0408	060W	4301351462	Indian	Fee	OW	APD
LC TRIBAL 14-30D-37	30	0308	070W	4301351494	Indian	Fee	OW	APD
7-13D-45 BTR	13	0408	050W	4301351497	Indian	Indian	OW	APD
LC TRIBAL 4H-35-46	35	0408	060W	4301351515	Indian	Fee	OW	APD
LC TRIBAL 13H-19-46	19	040\$	060W	4301351543	Indian	Indian	OW	APD
16-26D-37 BTR	26	030S	070W	4301351598	Indian	Fee	OW	APD
LC TRIBAL 16-31D-37	31	030\$	070W	4301351610	Indian	Fee	OW	APD
5-4-35 BTR	4	030S	050W	4301351613	Indian	Fee	OW	APD
LC TRIBAL 16-31D-47	31	040S	070W	4301351616	Indian	Indian	OW	APD
LC TRIBAL 13H-31-47	31	040S	070W	4301351617	Indian	Indian	OW	APD
LC TRIBAL 13-32D-47	32	040S	070W	4301351619	Indian	Indian	OW	APD
LC TRIBAL 16H-32-47	32	040S	070W	4301351620	Indian	Indian	OW	APD
LC TRIBAL 1-32D-47	32	040S	070W	4301351624	Indian	Indian	OW	APD
LC TRIBAL 4H-32-47	32	040S	070W	4301351625	Indian	Indian	OW	APD
LC TRIBAL 13-28D-47	28	040S	070W	4301351627	Indian	Indian	OW	APD
LC TRIBAL 13H-29-47	28	040S	070W	4301351628	Indian	Indian	OW	APD
LC TRIBAL 16H-28-47	28	040S	070W	4301351629	Indian	Indian	OW	APD
LC TRIBAL 1-28D-47	28	040S	070W	4301351639	Indian	Indian	OW	APD
LC TRIBAL 1H-27-47	28	040S	070W	4301351640	Indian	Indian	OW	APD
LC TRIBAL 4H-28-47	28	040S	070W	4301351641	Indian	Indian	OW	APD
LC TRIBAL 7-25D-58	25	050S	W080	4301351643	Indian	Indian	OW	APD
LC TRIBAL 6-25D-58	25	050S	080W	4301351644	Indian	Indian	OW	APD
LC TRIBAL 13H-24-58	24	050S	W080	4301351645	Indian	Indian	OW	APD
LC TRIBAL 16-24D-58	24	050S	080W	4301351646	Indian	Indian	OW	APD
LC Tribal 8-23D-46	23	040S	060W	4301351654	Indian	Fee	OW	APD
LC Tribal 16-35D-45	35	040S	050W	4301351656	Indian	Fee	OW	APD
LC Tribal 13H-35-45	35	040S	050W	4301351657	Indian	Fee	ow	APD
LC Tribal 16-36D-45	36	040S	050W	4301351658	Indian	Fee	ow	APD
LC Tribal 13H-36-45	36	040S	050W	4301351659	Indian	Fee	OW	APD
LC Tribal 5-36D-45	36	0408	050W	4301351661	Indian	Fee	OW	APD
LC Tribal 8-26D-46	26	040\$	060W	4301351663	Indian	Fee	OW	APD
3-29D-36 BTR	29	0308	060W	4301351665	Indian	Fee	OW	APD

LC Tribal 5-35D-45	35	040S	050W	4301351666	Indian	Fee	OW	APD
_C Tribal 5-24D-46	24	0408	060W	4301351668	Indian	Indian	ow	APD
_C TRIBAL 6-12D-58	12	0508	080W	4301351696	Indian	Indian	OW	APD
LC TRIBAL 8-12D-58	12	050S	080W	4301351697	Indian	Indian	OW	APD
.C TRIBAL 16H-22-47	21	040S	070W	4301351700	Indian	Indian	OW	APD
5-25D-37 BTR	25	030S	070W	4301351803	Indian	Fee	OW	APD
8-3D-36 BTR	3	0308	060W	4301351804	Indian	Fee	OW	APD
14-26D-37 BTR	26	0308	070W	4301351805	Indian	Fee	OW	APD
9-4-35 BTR	4	0308	050W	4301351806	Indian	Fee	ow	APD
11-4D-35 BTR	4	030S	050W	4301351807	Indian	Fee	OW	APD
16-27D-37 BTR	27	0308	070W	4301351808	Indian	Fee	OW	APD
14-27D-37 BTR	27	0308	070W	4301351809	Indian	Fee	OW	APD
14-16D-46 BTR	16	040S	060W	4301351812	Indian	Indian	OW	APD
_C Tribal 16-35D-48	35	040S	080W	4301351847	Indian	Indian	OW	APD
LC Tribal 13H-35-48	35	040S	080W	4301351848	Indian	Indian	OW	APD
_C Tribal 13-2D-58	11	050S	080W	4301351850	Indian	Indian	OW	APD
5-13D-36 BTR	13	0308	060W	4301351862	Indian	Fee	OW	APD
5-8D-36 BTR	8	0308	060W	4301351871	Indian	Fee	OW	APD
16-1D-36 BTR	1	0308	060W	4301351872	Indian	Fee	ow	APD
3-18D-46 BTR	18	040S	060W	4301351897	Indian	Fee	OW	APD
_C Tribal 5-36D-46	36	040S	060W	4301351905	Indian	Indian	OW	APD
LC Tribal 5-26D-45	26	040S	050W	4301351907	Indian	Indian	OW	APD
14-13D-45 BTR	13	040S	050W	4301351974	Indian	Indian	OW	APD
14-34D-46 DLB	34	040S	060W	4301351975	Indian	Fee	OW	APD
LC Tribal 5-21D-45	21	0408	050W	4301352001	Indian	Indian	OW	APD
_C Tribal 8-22D-45	22	0408	050W	4301352002	Indian	Indian	OW	APD
_C Tribal 8-25D-45	25	0408	050W	4301352007	Indian	Indian	OW	APD
LC Tribal 16-25D-45	25	040S	050W	4301352008	Indian	Indian	OW	APD
LC Tribal 16-22D-45	22	040S	050W	4301352009	Indian	Indian	OW	APD
LC Tribal 16-26D-45	26	040S	050W	4301352010	Indian	Indian	OW	APD
LC Tribal 14-31D-37	31	0308	070W	4301352016	Indian	Fee	OW	APD
5-12D-45 BTR	12	040S	050W	4301352030	Indian	Indian	ow	APD
LC Tribal 9-20D-45	20	040S	050W	4301352031	Indian	Indian	OW	APD
LC Tribal 13-35D-47	35	0408	070W	4301352055	Indian	Indian	ow	APD
C Tribal 1-23D-47	23	040S	070W	4301352057	Indian	Indian	ow =	APD
9-17D-46 BTR	17	040S	060W	4301352059	Indian	Indian	OW	APD
11-18D-46 BTR	18	040S	060W	4301352060	Indian	Indian	OW	APD
9-10D-47 BTR	10	0408	070W	4301352092	Indian	Fee	OW	APD
LC Tribal 1-17D-47	17	0408	070W	4301352096	Indian	Fee	OW	APD
7-35D-37 BTR	35	0308	070W	4301352115	Indian	Fee	OW	APD
14-25D-37 BTR	25	0308	070W	4301352116	Indian	Fee	OW	APD

LC Tribal 5-25-46	25	040S	060W	4301352126	Indian	Indian	OW	APD
8-33D-35 BTR	33	030S	050W	4301352161	Indian	Fee	OW	APD
5-4D-36 BTR	4	030S	060W	4301352175	Indian	Fee	OW	APD
'-4D-36 BTR	4	030S	060W	4301352176	Indian	Fee	OW	APD
C Tribal 4-36D-47	36	040S	070W	4301352186	Indian	Indian	OW	APD
.C Tribal 4-22D-46	22	040S	060W	4301352944	Indian	Indian	OW	APD
.C Tribal 16-22D-46	22	040S	060W	4301352945	Indian	Indian	OW	APD
.C Tribal 11-19D-46	19	040S	060W	4301352946	Indian	Indian	OW	APD
.C Tribal 7-20D-45	20	040S	050W	4301352947	Indian	Indian	OW	APD
5-11D-35 BTR	11	030S	050W	4301353056	Indian	Fee	OW	APD
3-11D-35 BTR	11	030S	050W	4301353057	Indian	Fee	OW	APD
3TR 16-36D-37	36	030S	070W	4301353059	Indian	Fee	OW	APD
I-29D-35 BTR	30	030S	050W	4301353060	Indian	Fee	ow	APD
-30D-35 BTR	30	030S	050W	4301353061	Fee	Fee	OW	APD
C TRIBAL 3-23D-46	23	040S	060W	4301353066	Indian	State	ow	APD
C Tribal 14-23D-46	23	040S	060W	4301353067	Indian	State	OW	APD
.C Tribal 13-25D-46	25	040S	060W	4301353068	Indian	Indian	OW	APD
C Tribal 14-26D-46	26	040S	060W	4301353069	Indian	State	OW	APD
C Tribal 5-26D-46	26	040S	060W	4301353070	Indian	State	OW	APD
C Tribal 11-35D-45	35	040S	050W	4301353071	Indian	State	OW	APD
C Tribal 7-35D-45	35	040S	050W	4301353072	Indian	State	OW	APD
C Tribal 3-35D-45	35	040S	050W	4301353075	Indian	State	OW	APD
C Tribal 14-36D-45	36	040S	050W	4301353076	Indian	State	OW	APD
C Tribal 13-36D-45	36	040S	050W	4301353077	Indian	State	OW	APD
C Tribal 10-36D-45	36	040S	050W	4301353078	Indian	State	OW	APD
.C Tribal 8-36D-45	36	040S	050W	4301353079	Indian	State	OW	APD
.C Tribal 6-36D-45	36	040S	050W	4301353080	Indian	State	OW	APD
.C Tribal 1-34D-46	34	040S	060W	4301353081	Indian	State	OW	APD
.C Tribal 9-27D-46	27	040S	060W	4301353082	Indian	State	OW	APD
.C Tribal 13-35D-45	35	040S	050W	4301353083	Indian	State	OW	APD
C Tribal 8-35D-45	35	040S	050W	4301353084	Indian	State	OW	APD
.C Tribal 15-35D-45	35	040S	050W	4301353085	Indian	State	OW	APD
C Tribal 12-25D-45	25	040S	050W	4301353122	Indian	Indian	OW	APD
C Tribal 14-25D-45	25	040S	050W	4301353123	Indian	Indian	OW	APD
C Tribal 10-25D-45	25	040S	050W	4301353124	Indian	Indian	ow	APD
C Tribal 11-26-45	26	040S	050W	4301353125	Indian	Indian	OW	APD
C Tribal 13-26D-45	26	040S	050W	4301353126	Indian	Indian	OW	APD
C Tribal 7-31D-46	31	040S	060W	4301353127	Indian	Indian	OW	APD
.C Tribal 7-19D-45	19	040S	050W	4301353128	Indian	Indian	OW	APD
.C Tribal 5-19D-45	19	040S	050W	4301353130	Indian	Indian	OW	APD
.C Tribal 7-25D-46	25	040S	060W	4301353132	Indian	Indian	OW	APD

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_C Tribal 7-24D-46	24	0408	060W	4301353134		Indian	Indian	OW	APD
.C Tribal 14-31D-46	31	040S	060W	4301353135		Indian	Indian	OW	APD
C Tribal 14-30D-46	30	040S	060W	4301353136		Indian	Indian	OW	APD
13-4-35 BTR SWD	4	030S	050W	4301353293		Fee	Fee	OW	APD
.C FEE 14-26D-47	26	040S	070W	4301353294	1	Fee	Indian	OW	APD
C Fee 5-25D-47	25	040S	070W	4301353295		Fee	Indian	OW	APD
7-35-46 LC SWD	35	040S	060W	4301353296		Fee	Fee	OW	APD
.C Fee 1H-33-47	32	040S	070 <b>W</b>	4301353309		Fee	Indian	ow	APD
_C FEE 14-2D-58	2	050S	W080	4301353312		Fee	Indian	OW	APD
C FEE 13H-21-47	21	040S	070W	4301353313		Fee	Indian	OW	APD
C Fee 16-21D-47	21	040S	070W	4301353326		Fee	Indian	OW	APD
6-7D-46 BTR	7	040S	060W	4301353328		Fee	Indian	OW	APD
C Fee 15-26D-47	26	040S	070W	4301353331		Fee	Indian	OW	APD
.C Fee 4-24D-47	23	040S	070W	4301353332		Fee	Indian	OW	APD
.C Fee 5-34D-47	34	040S	070W	4301353333		Fee	Indian	OW	APD
.C Fee 5-35D-47	35	040S	070W	4301353334	:	Fee	Indian	OW	APD
3-34D-47 LC Fee	34	040S	070W	4301353337		Fee	Indian	OW	APD
4-35D-35 BTR	35	030S	050W	4301352120		Fee	Fee	OW	DRL
-17D-46 BTR	17	040S	060W	4301351078		Indian	Indian	OW	OPS
-34D-35 BTR	34	030S	050W	4301351187		Indian	Fee	OW	OPS
5-10D-45 BTR	10	040S	050W	4301351221		Indian	Indian	OW	OPS
-3D-45 BTR	3	040S	050W	4301351810		Indian	Indian	OW	OPS
-34D-35 BTR	34	030S	050W	4301352117		Fee	Fee	OW	OPS
-35D-35 BTR	35	030S	050W	4301352118		Fee	Fee	OW	OPS
-2D-46 BTR	2	040S	060W	4301353086		Indian	Fee	OW	OPS
'-21-46 DLB	21	040S	060W	4301333567	16526	Indian	Indian	OW	P
.C TRIBAL 1H-27-46	27	040S	060W	4301333568	18175	Indian	Fee	GW	P
'-29-46 DLB	29	040S	060W	4301333584	17603	Indian	Fee	GW	P
C TRIBAL 12H-28-46	28	0408	060W	4301333631	18132	Indian	Indian	GW	P
.C TRIBAL 13H-21-46	21	0408	060W	4301333632	18107	Indian	Indian	GW	 P
2-36-36 BTR	36	030S	060W	4301333638	16336	Indian	Fee	GW	P
i-5-46 BTR	5	0408	060W	4301333639	16542	Indian	Fee	OW	P
5-23-36 BTR	23	0308	060W	4301333642	16675	Indian	Fee	GW	P
4-29-36 BTR	29	0308	060W	4301333643	16725	Indian	Fee	ow	P
4-30-36 BTR	30	0308	060W	4301333644	16701	Indian	Fee	GW	<u>'</u>
'-20-46 DLB	20	040S	060W	4301333657	16584	Indian	Indian	OW	'P
.C TRIBAL 5-21D-46	21	0408	060W	4301333658	18887	Indian	Indian	OW	P
-20-46 DLB	20	0408	060W	4301333659	18750	Indian	Indian	GW	P
.C TRIBAL 13H-20-46	20	0408	060W	4301333678	17979	Indian	Indian	GW	P
14-7-46 BTR	7	0408	060W	4301333806	16890	Indian	Indian	GW	P
	1.	0.00	100011	TOO   OOOOOO	10000	HIMIAII	HIMIAH	UVV	1 1-1

1-5-45 BTR	5	040S	050W	4301333868	16931	Indian	Indian	OW	Р
5-16-36 BTR	16	030S	060W	4301333970	17195	Indian	Fee	ow	P
5-29-36 BTR	29	030S	060W	4301333972	17557	Indian	Fee	OW	P
4-30-36 BTR	30	030S	060W	4301333973	17249	Indian	Fee	OW	P
7-19-46 DLB	19	040S	060W	4301334004	19018	Indian	Indian	OW	Р
5-25-36 BTR	25	0308	060W	4301334021	17126	Fee	Fee	OW	P
5-4-45 BTR	4	0408	050W	4301334089	17507	Indian	Indian	oW	Р
13-2-46 BTR	2	040S	060W	4301334090	18618	Indian	Indian	ow	Р
2-3-45 BTR	3	040S	050W	4301334099	17932	Indian	Indian	OW	Р
7-6-45 BTR	6	040S	050W	4301334100	17653	Indian	Indian	OW	Р
1-9-45 BTR	9	0408	050W	4301334101	17910	Indian	Indian	OW	Р
8-10-45 BTR	10	040S	050W	4301334102	17530	Indian	Indian	ow	Р
7-17-45 BTR	17	040S	050W	4301334104	17933	Indian	Indian	OW	Р
16-7-45 BTR	7	040S	050W	4301334111	17665	Indian	Indian	OW	Р
15-18-45 BTR	18	040S	050W	4301334112	17832	Indian	Indian	ow	P
6-12-46 BTR	12	040S	060W	4301334114	17964	Indian	Indian	ow	P
5-13-46 BTR	13	040S	060W	4301334115	17833	Indian	Indian	OW	Р
16-26-36 BTR	26	030S	060W	4301334132	18028	Indian	Fee	ow	P
1-23-36 BTR	23	030S	060W	4301334136	17722	Indian	Fee	OW	Р
15-10-36 BTR	10	030S	060W	4301334277	17419	Indian	Fee	ow	Р
14-5-46 BTR	5	040S	060W	4301350307	17624	Fee	Fee	ow	Р
14X-22-46 DLB	22	040S	060W	4301350351	17604	Indian	Indian	ow	Р
16-13-36 BTR	13	030S	060W	4301350372	17853	Indian	Fee	ow	Р
5-33-46 DLB	33	040S	060W	4301350397	17765	Indian	Fee	OW	Р
5-34-46 DLB	34	040S	060W	4301350415	17801	Indian	State	GW	Р
LC FEE 12H-32-46	32	040S	060W	4301350431	18003	Fee	Fee	OW	Р
1-13D-47 BTR	13	040S	070W	4301350445	18205	Indian	Fee	OW	Р
16-8D-45 BTR	8	040S	050W	4301350466	18799	Indian	Indian	OW	Р
7-13D-46 BTR	13	040S	060W	4301350470	18076	Indian	Indian	OW	Р
14-8D-45 BTR	8	040S	050W	4301350567	18207	Indian	Indian	OW	Р
14-5D-45 BTR	5	040S	050W	4301350568	18108	Indian	Indian	OW	Р
16-31D-36 BTR	31	030S	060W	4301350573	18004	Indian	Fee	OW	P
5-7D-46 BTR	7	040S	060W	4301350574	18176	Indian	Indian	OW	Р
LC TRIBAL 13H-33-46	34	040S	060W	4301350575	18223	Indian	State	OW	Р
5-8-45 BTR	8	040S	050W	4301350607	18279	Indian	Indian	OW	Р
16-6D-45 BTR	6	040S	050W	4301350610	18177	Indian	Indian	OW	P
5-18D-45 BTR	18	040S	050W	4301350611	18300	Indian	Indian	OW	Р
7-26-37 BTR	26	030\$	070W	4301350641	18131	Indian	Fee	OW	Р
3-11D-36 BTR	11	030S	060W	4301350642	18299	Indian	Fee	OW	Р
16-1D-46 BTR	1	040S	060W	4301350675	18525	Indian	Indian	ow	Р
14-3-45 BTR	3	040S	050W	4301350676	18363	Indian	Indian	ow	Р

4-17D-45 BTR	17	040S	050W	4301350687	18517	Indian	Indian	OW	Р
5-6D-45 BTR	6	040S	050W	4301350688	18726	Indian	Indian	OW	P
7-7D-45 BTR	7	040S	050W	4301350689	18380	Indian	Indian	OW	P
14-10D-45 BTR	10	040S	050W	4301350754	18447	Indian	Indian	OW	P
14-9D-45 BTR	9	040S	050W	4301350755	18379	Indian	Indian	OW	P
13-16D-36 BTR	16	030S	060W	4301350757	18206	Indian	State	OW	Р
5-9D-36 BTR	9	030S	060W	4301350843	18381	Indian	Fee	OW	P
16-5D-46 BTR	5	040S	060W	4301350844	18280	Fee	Fee	OW	Р
5-27D-37 BTR	27	030S	070W	4301350847	18526	Indian	Fee	OW	Р
7-4D-45 BTR	4	040S	050W	4301350884	18562	Indian	Indian	OW	Р
2-16D-45 BTR	16	040S	050W	4301350899	18619	Indian	Indian	OW	Р
16-10D-45 BTR	10	040S	050W	4301350902	18725	Indian	Indian	OW	P
5-2D-36 BTR	2	030S	060W	4301350913	18886	Indian	Fee	ow	Р
13H-27-36 BTR	27	030S	060W	4301350918	18445	Indian	State	ow	Р
8-16D-46 BTR	16	040S	060W	4301350953	19027	Indian	Indian	OW	Р
16-16D-46 BTR	16	040S	060W	4301350956	19028	Indian	Indian	OW	Р
16-9D-45 BTR	9	040S	050W	4301350962	18662	Indian	Indian	OW	Р
14-31D-36 BTR	31	030S	060W	4301350973	18524	Indian	Fee	OW	Р
5-10D-36 BTR	10	030S	060W	4301350978	18989	Indian	Fee	OW	Р
1-32D-36 BTR	32	030S	060W	4301350979	18648	Indian	Fee	OW	Р
16-12D-36 BTR	12	030S	060W	4301350980	18748	Indian	Fee	ow	Р
2-18D-45 BTR	18	040S	050W	4301350991	18776	Indian	Indian	OW	Р
3-1-46 BTR	1	040S	060W	4301351017	18777	Indian	Fee	ow	Р
10-5-45 BTR	5	040S	050W	4301351062	18724	Indian	Indian	OW	Р
12-4D-45 BTR	4	040S	050W	4301351063	18813	Indian	Indian	ow	Р
1-10D-45 BTR	10	040S	050W	4301351064	18966	Indian	Indian	ow	Р
16-2D-46 BTR	2	040S	060W	4301351079	18830	Indian	Indian	OW	Р
9H-4-45 BTR	4	040S	050W	4301351092	18814	Indian	Indian	OW	Р
12-17-45 BTR	17	040S	050W	4301351097	18984	Indian	Indian	OW	Р
5-9D-46 BTR	9	040S	060W	4301351109	19313	Indian	Fee	OW	Р
14-9D-36 BTR	9	030S	060W	4301351144	19004	Indian	Fee	OW	Р
5-31D-36 BTR	31	030S	060W	4301351146	18691	Indian	Fee	OW	Р
4-9D-45 BTR	9	040S	050W	4301351157	18883	Indian	Indian	OW	Р
8-12D-46 BTR	12	040S	060W	4301351159	18911	Indian	Indian	OW	Р
LC TRIBAL 16-23D-47	23	040S	070W	4301351180	18617	Indian	Indian	OW	Р
14-7D-45 BTR	7	040S	050W	4301351222	18949	Indian	Indian	OW	Р
5-16D-45 BTR	16	040S	050W	4301351223	18987	Indian	Indian	OW	Р
4-5D-45 BTR	5	040S	050W	4301351242	18882	Indian	Indian	OW	P
LC TRIBAL 16H-19-45	19	0408	050W	4301351278	18627	Indian	Indian	OW	Р
LC TRIBAL 13-19D-45	19	040S	050W	4301351280	18628	Indian	Indian	OW	Р
LC TRIBAL 5-30D-45	30	040S	050W	4301351281	19448	Indian	Indian	OW	Р

LC TRIBAL 15-24D-46	24	040S	060W	4301351283	18626	Indian	Indian	OW	Р
LC TRIBAL 13H-24-46	19	040S	050W	4301351289	18629	Indian	Indian	ow	P
7-16-47 BTR	16	040S	070W	4301351296	18950	Indian	Fee	ow	P
14-18D-45 BTR	18	040S	050W	4301351313	19005	Indian	Indian	ow	Р
LC TRIBAL 16-30D-46	30	040S	060W	4301351320	19006	Indian	Indian	OW	Р
LC TRIBAL 5-20D-45	20	040S	050W	4301351331	19449	Indian	Indian	OW	Р
11-8D-46 BTR	8	040\$	060W	4301351336	19314	Indian	Indian	OW	Р
5-7D-45 BTR	7	040S	050W	4301351350	18951	Indian	Indian	OW	Р
7-5-35 BTR	5	0308	050W	4301351599	19078	Indian	Fee	OW	Р
13-5D-35 BTR	5	030S	050W	4301351600	18996	Indian	Fee	OW	Р
11-5D-35 BTR	5	030S	050W	4301351601	19061	Fee	Fee	OW	Р
15-5D-35 BTR	5	030S	050W	4301351602	19062	Fee	Fee	OW	Р
9-5D-35 BTR	5	030S	050W	4301351609	19029	Indian	Fee	OW	Р
3-5D-35 BTR	5	030S	050W	4301351638	19079	Indian	Fee	OW	Р
7-8-46 BTR	8	040S	060W	4301351702	19315	Indian	Indian	OW	P
7-30-46 DLB	30	040S	060W	4301351703	18997	Fee	Indian	OW	Р
3-13D-46 BTR	13	040S	060W	4301351718	18881	Indian	Indian	OW	Р
2-13D-46 BTR	13	040S	060W	4301351719	18885	Indian	Indian	OW	Р
12-12D-46 BTR	12	040S	060W	4301351720	18867	Indian	Indian	OW	∱P
10-12D-46 BTR	12	040S	060W	4301351721	18856	Indian	Indian	OW	P
11-11D-47 BTR	11	040S	070W	4301352091	19633	Fee	Fee	OW	Р
7-12D-47 BTR	12	040S	070W	4301352094	19600	Indian	Fee	ow	Р
5-12D-47 BTR	12	040S	070W	4301352095	19634	Indian	Fee	ow	Р
14-33D-35 BTR	33	030S	050W	4301352162	19450	Indian	Fee	OW	Р
16-33D-35 BTR	33	030S	050W	4301352163	19451	Indian	Fee	OW	Р
14-22-46 DLB	22	040S	060W	4301333660	17604	Indian	Indian	D	PA
13H-31-36 BTR	31	0308	060W	4301350465	18485	Indian	Fee	OW	PA
16X-23D-36 BTR	23	030S	060W	4301350623	18007	Indian	State	OW	PA
8-6-45 BTR	6	040S	050W	4301350900	18561	Indian	Indian	OW	PA
13-13-36 BTR	13	030S	060W	4301350919	18364	Indian	Fee	OW	PA
7-28-46 DLB	28	040S	060W	4301333569	16460	Indian	Indian	OW	S
5-21-36 BTR	21	030S	060W	4301333641	16674	Indian	Fee	GW	S
13-26-36 BTR	26	030S	060W	4301333980	17569	Indian	Fee	OW	S
14-1-46 BTR	1	040S	060W	4301334113	18516	Indian	Indian	OW	S
16-21-36 BTR	21	030S	060W	4301334130	17721	Indian	Fee	OW	S
14-21-36 BTR	21	030S	060W	4301334131	18006	Indian	Fee	OW	S
7-16-36 BTR	16	030\$	060W	4301334133	17834	Indian	Fee	OW	S
1-30-36 BTR	30	0308	060W	4301334134	17905	Indian	Fee	ow	S
16-30-36 BTR	30	0308	060W	4301334135	18005	Indian	Fee	OW	S
3-23-36 BTR	23	030\$	060W	4301334137	17860	Indian	Fee	OW	S
16-16-36 BTR	16	030S	060W	4301334138	17666	Indian	Fee	OW	S

4-26-36 BTR	26	030S	060W	4301334139	17620	Fee	Fee	OW	S
9-11-36 BTR	11	030S	060W	4301334276	17451	Indian	Fee	OW	S
3-36-36 BTR	36	030S	060W	4301350398	17955	Indian	Fee	OW	S
7-10-36 BTR	10	030S	060W	4301350437	18052	Indian	Fee	OW	S
16-12D-46 BTR	12	040S	060W	4301350467	18051	Indian	Indian	OW	S
13H-13-46 BTR	13	040S	060W	4301350468	18208	Indian	Indian	OW	S
13-12-46 BTR	12	040S	060W	4301350469	18233	Indian	Indian	OW	S
14-8D-36 BTR	8	030S	060W	4301350612	18163	Indian	Fee	OW	S
14-7D-36 BTR	7	030S	060W	4301350613	18330	Indian	Fee	ow	S
16-9-36 BTR	9	0308	060W	4301350645	18078	Indian	Fee	OW	S
7-27-37 BTR	27	030S	070W	4301350647	18090	Indian	Fee	OW	S
16-12D-37 BTR	12	030S	070W	4301350785	18446	Indian	Fee	OW	S
14-21D-37 BTR	21	030S	070W	4301350859	18548	Indian	Fee	OW	S
10-18D-36 BTR	18	030S	060W	4301350915	18884	Indian	Fee	OW	S
5-27D <b>-</b> 36	27	030S	060W	4301350917	18482	Indian	State	ow	S
10-36D-36 BTR	36	030S	060W	4301351005	18523	Indian	Fee	OW	S
14-6D-45 BTR	6	040S	050W	4301351158	18967	Indian	Indian	ow	S
5H-1-46 BTR UTELAND BUTTE	6	040S	050W	4301351215	18728	Indian	Indian	OW	S
5H-1-46 BTR WASATCH	6	040S	050W	4301351216	18727	Indian	Indian	OW	S
1-25D-36 BTR	25	030S	060W	4301351294	18798	Indian	Fee	OW	S
5-5D-35 BTR	5	030S	050W	4301351605	19055	Indian	Fee	OW	S
16-23-36 BTR	23	030S	060W	4301333971	17182	Indian	Fee	OW	TA
LC TRIBAL 14-23D-47	23	040S	070W	4301334022	18616	Indian	Indian	OW	TA
5-32D-36 BTR	32	030S	060W	4301350756	18328	Indian	Fee	OW	TA



October 20, 2016

RECEIVED

OCT 21 2016

Re: Bill Barrett Corporation Transfer to New Operator

DIV. OF OIL, GAS & MINING

Dear Ms. Medina:

Attached please find the change of operation Form 9, Form 5's and Request to Transfer APD formchanging the operator from Bill Barrett Corporation to RIG II, LLC, effective 11/1/2016. Badlands Energy – Utah, LLC will be a sub-operator.

#### **New Operator Contact information:**

RIG II, LLC 1582 West 2600 South Woods Cross, Utah 84087-0298 Telephone:(801) 683-4245 Fax:(801) 298-9889

Upon reviewing the attached, please contact myself with any questions at 303-312-8115.

Sincerely,

**Bill Barrett Corporation** 

Brady Riley Permit Analyst

#### STATE OF UTAH FORM 9 **DEPARTMENT OF NATURAL RESOURCES** 5. LEASE DESIGNATION AND SERIAL NUMBER: DIVISION OF OIL, GAS AND MINING (see attached well list) 6. IF INDIAN, ALLOTTEE OR TRIBE NAME: SUNDRY NOTICES AND REPORTS ON WELLS N/A 7, UNIT or CA AGREEMENT NAME: Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals. 1. TYPE OF WELL 8. WELL NAME and NUMBER OIL WELL 🔽 GAS WELL (see attached well list) 2. NAME OF OPERATOR: 9. API NUMBER RIG II, LLC 3. ADDRESS OF OPERATOR PHONE NUMBER: 10. FIELD AND POOL, OR WILDCAT: 1582 West 2600 South (801) 683-4245 STATE UT ZIP 84087 Wood Cross 4. LOCATION OF WELL FOOTAGES AT SURFACE: (see attached well list) COUNTY: QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: STATE: UTAH CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA 11. TYPE OF SUBMISSION TYPE OF ACTION ACIDIZE REPERFORATE CURRENT FORMATION NOTICE OF INTENT (Submit in Duplicate) ALTER CASING FRACTURE TREAT SIDETRACK TO REPAIR WELL Approximate date work will start; CASING REPAIR **NEW CONSTRUCTION** TEMPORARILY ABANDON 11/1/2016 CHANGE TO PREVIOUS PLANS OPERATOR CHANGE TUBING REPAIR CHANGE TUBING PLUG AND ABANDON VENT OR FLARE SUBSEQUENT REPORT CHANGE WELL NAME PLUG BACK WATER DISPOSÁL (Submit Original Form Only) CHANGE WELL STATUS PRODUCTION (START/RESUME) WATER SHUT-OFF Date of work completion: COMMINGLE PRODUCING FORMATIONS RECLAMATION OF WELL SITE OTHER: CONVERT WELL TYPE **RECOMPLETE - DIFFERENT FORMATION** 12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. RIG II, LLC IS SUBMITTING THIS SUNDRY AS NOTIFICATION THAT THE WELLS LISTED ON THE ATTACHED LIST HAVE BEEN SOLD TO-Rig II, LLC BY BILL BILL BARRETT CORPORATION EFFECTIVE 11/1/2016. PLEASE REFER ALL FUTURE CORRESPONDENCE TO THE ADDRESS BELOW. RIG II, LLC 1582 West 2600 South Woods Cross, Utah 84087-0298 801-683-4245 (STATE/FEE BOND # 9219529/ BLM BOND # UTB000712/ BIA BOND # LPM9224670) BILL BARRETT CORPORATION NOILS RIG II, LLC MAME (PLEASE PRINT) \_ NAME (PLEASE PRINT) SIGNATURE SIGNATURE EH&S, Government and Regulatory Affairs Jesse McSwain Manager NAME (PLEASE PRINT) 1012016

**APPROVED** 

NOV 0 7 2016

(This space for State use only)

# STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

#### **Request to Transfer Application or Permit to Drill**

Well name:		(See attached lis	st)		<del></del>	
API number:						
Location:		Qtr-Qtr:	Section:	Township: Range:		
Company that	filed original application:	Bill Barrett Corpo	oration			
Date original pe	ermit was issued:					
Company that	permit was issued to:	Bill Barrett Cor	poration			
			÷			
Check one		Desi	red Action:			
Transfor	pending (unapproved) App	lication for Po	rmit to Drill to no	w operator		
submitted	in the pending Application fo	or Permit to Dril	l, remains valid ar	by verifies that the information as nd does not require revision. The cedures as stated in the application	new	
✓ Transfer	approved Application for P	ermit to Drill t	o new operator			
				ermitted, hereby verifies that the remains valid and does not requir	e	
		-41441			Τ.,	Ι
	checklist of some items rela		Tilication, which s	snoula de verifiea.	Yes	No
· · · · · · · · · · · · · · · · · · ·	vate land, has the ownership				<b>√</b>	
<del></del>	the surface agreement been				1	<b>✓</b>
Have any wells requirements for	been drilled in the vicinity of t r this location?	he proposed w	ell which would af	fect the spacing or siting		✓
Have there beer proposed well?	າ any unit or other agreement	ts put in place t	hat could affect th	e permitting or operation of this		✓
Have there been proposed location		route including	ownership or righ	t-of-way, which could affect the		✓
Has the approve	ed source of water for drilling	changed?				✓
	n any physical changes to the was discussed at the onsite		on or access route	which will require a change in		1
ls handing still in	n place, which covers this pro	posed well? B	ond No. 9219529-UDOGM/U	JTB000712-BI,M / LPM9224670-BIA	1	
13 Donaing Still II					_	rad
Any desired or r should be filed on necessary supp	on a Sundry Notice, Form 9, c orting information as required	or amended Ap	olication for Permi	n for Permit to Drill that is being tr it to Drill, Form 3, as appropriate,		rea,
Any desired or r should be filed of necessary support	on a Sundry Notice, Form 9, c	or amended Ap	Title Manager			rea,
Any desired or r should be filed of necessary support Name (please p Signature	on a Sundry Notice, Form 9, c orting information as required	or amended Ap	olication for Permi			

The person signing this form must have legal authority to represent the company or individual(s) to be listed as the new operator on the Application for Permit to Drill.

## **STATE OF UTAH**DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL, GAS AND MINING

•	TRAI	NSFE	R OF	AUTHORITY TO INJECT	•
Well Name and Number 6-32-36 BTR SWD		4			API Number 4301350921
Location of Well				DUQUENOE	Field or Unit Name CEDAR RIM
Footage: 1628 FNL 1553 FWL  QQ, Section, Township, Range: SENW	32	3S	6W	County : DUCHENSE  State : UTAH	Lease Designation and Number 2OG0005608

EFFECTIVE DATE OF TRANSFER: 11/1/2016

CURRENT OP	PERATOR	
Company:	BILL BARRETT CORPORATION	Name: Duane Zavadil
Address:	1099 18th Street Ste 2300	Signature: 2nCd
	city DENVER state CO zip 80202	Senior Vice President - Title: EH&S, Government and Regulatory Affairs
Phone:	(303) 293-9100	Date: 10 20 16
Comments	· · · · · · · · · · · · · · · · · · ·	

Address: 1582 West 2600 South Signature: Signature: Manager	Company: RIG II, LLC Name: Jesse McSwain	
10/2 . 111	1593 West 2000 Courts	R:
(004) 002 4045	city Wood Cross state UT zip 84087 Title: Manager	
Phone: (801) 683-4245 Date: 10 LC 10	Phone: (801) 683-4245 Date: 10 20 10	

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Transfer approved by:

Approval Date: ///3//L

Comments:

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

	TRANSFER OF AL	JTHORITY TO INJECT	Γ
Well Name and 16-6D-46 BT			API Number 4301350781
ocation of Well		:	Field or Unit Name
Footage: 02	200 FSL 0099 FEL	County : DUCHESNE	ALTAMONT Lease Designation and Number
QQ, Section,	Township, Range: SESE 6 4S 6W	State: UTAH	20G0005608
	11/1/2016		
EFFECTIVE L	DATE OF TRANSFER: 11/1/2016		
CURRENT OP	PERATOR		
Company:	BILL BARRETT CORPORATION	Name: Duane	e Zavadil
Address:	1099 18th Street Ste 2300	Signature:	m Zinal
	city DENVER state CO zip 80202	SeniorV	ice President - Government and Regulatory Affairs
Phone:	(303) 293-9100	Date:	20/16
Comments:			
oommonto.	•		
NEW OPERAT			
VEW OF LINA	iok		
Company:	RIG II, LLC	Name: Jesse	McSwain <sup>(</sup>
Address:	1582 West 2600 South	Signature:	Leve MG:
, , , , , , , , , , , , , , , , , , , ,	city Wood Cross state UT zip 84087	Title: Mana	
Phone:	(801) 683-4245	Date:	120/16
Comments:	:		
This space for S	state use only)	•	1
Transfer ap	oproved by:	Approval Date:	11/3/16
	Title: VIC		•

Comments:

#### STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

	TRANSFER OF AL	UTHORITY TO INJECT	Γ
Vell Name and N SWD 9-36 B			API Number 4301350646
ocation of Well			Field or Unit Name CEDAR RIM
Footage: 05	539 FSL 0704 FEL	County : DUCHESNE	Lease Designation and Number
QQ, Section,	Township, Range: SESE 9 3S 6W	State: UTAH	2OG0005608
FFECTIVE D	PATE OF TRANSFER: 11/1/2016		
URRENT OP	ERATOR		
	DUL DADDETT CODDODATION	_	
Company:	BILL BARRETT CORPORATION	Name: Duane	e Zavadil
Address:	1099 18th Street Ste 2300	Signature: Senior V	ice kiesident -
	city DENVER state CO zip 80202	Title: EH&S, C	Government and Regulatory Affairs
Phone:	(303) 293-9100	Date: <u>\</u>	2014
Comments:			
EW OPERAT	OR		
Company:	RIG II, LLC	Name: Jesse	McSwain
Address:	1582 West 2600 South	Signature:	ene MG:
	city Wood Cross state UT zip 84087	Title: Mana	ger
Phone:	(801) 683-4245	Date:	20/14
Comments:			
sis annag far Ct	ofe use only)		
nis space for St			
Transfer ap	proved by:		
	Title:	-/A. IICE	PA.
Comm	nents:  This well was approved with	rived 49 USC	, , , ,
	FPA approved Wi	Il be required	
	<u> </u>	V	